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The

Inland SEED COMPANY

SPOKANE, WASH.



1924

ANNUAL

1924

1924--THE INLAND SEED CO.--1924

FREE INFORMATION BUREAU

We are glad to record that our customers have used this freely, and we wish to state that it has been a source of great pleasure and profit to ourselves, as frequently we have been obliged to investigate before answering, and this fact accounts for the delay of a few days in answering some inquiries. This has been established for the use of our customers and the more it is used the better we are pleased. It is entirely free.

WHEN YOU ORDER

Write name and address plainly.
Give postoffice and shipping point.

Include prepay charges if necessary.

Figure postage correctly.

All orders strictly cash.

Plants not sent C. O. D.

INSURANCE.

Up to \$5.00.....	3c
From \$5.00 to \$25.00.....	5c
From \$25.00 to \$50.00.....	10c
From \$50.00 to \$100.00.....	25c

If you want your order insured add at above rates to your remittance. We are not responsible for goods after being delivered to P. O. or general carrier.

UNSOLICITED

Eureka, Mont., Aug. 30, 1923.

Inland Seed Co., Spokane, Wash.

Gentlemen: Fourteen of the fifteen Dahlias I purchased from you are perfect, and the twenty-four varieties of Sweet Peas are the talk of the town. I also purchased my garden seeds from the Standard Grocery, as they are handling your seeds, and found your seeds of as high a quality as the Dahlias and Sweet Peas.

Very truly yours,

BEN. C. PINNEY.

Hamilton, Mont., Feb. 20.

The Inland Seed Co., Spokane, Wash.

Gentlemen: Enclosed find P. O. money order to cover enclosed order. I have always used your seed since coming to Montana and find them very satisfactory. Please retain my name on your list, as sometimes the local dealers' stock becomes broken and I cannot always get varieties wanted.

Yours truly,

O. K. SIZER.

Colfax, Wash., Feb. 16., 1923.

The Inland Seed Co., Spokane, Wash.

Please send me one package of Burbank Tomatoe seed. I tried them last year for the first time and will say that they are the best I ever had, being two weeks earlier than the Earliana. Also please send your catalogue.

Truly yours,

MRS. E. P. FEENAN,

Pilot Rock, Oregon.

The Inland Seed Co., Spokane, Wash.

Please forward Giant Crego Asters as per enclosed, and desire to say that the last received from you was the finest I have ever seen anywhere.

Truly yours,

MRS. E. HEMPHILL.

The Inland Seed Co., Spokane, Washington



This is an exact fac-simile of our package seeds and of their arrangement and appearance in the box when opened for display and sale in a store.

These packages are for sale in over one thousand of the best stores in Washington and Idaho, Eastern Oregon, Montana and Wyoming.

UNSOLICITED

The Inland Seed Co., Spokane, Wash.

Keystone, Wash., Dec. 17, 1923.

Dear Sirs: Your seeds did well with us this year, and will be glad to have another assortment for this coming spring. Could have sold more Sweet Peas.

Yours truly,

W. H. VAN BUREN.

The Inland Seed Co., Spokane, Wash.

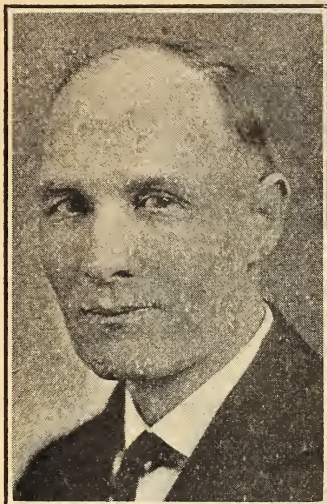
Leahy, Wash., March 23, 1923.

Gentlemen: I want to tell you how well I was pleased with my garden seeds last year. Some of my Early Jersey Wakefield Cabbage, also the second early varieties weighed from 8 to 10 pounds and did not get them started until quite late. Received from you two packages of White Onions and two of Red and these produced four sacks of splendid quality, and everything else was almost as good. The results were splendid for our section, especially as we have scarcely any rain.

Truly yours,

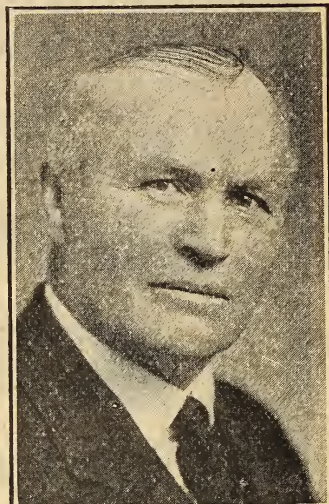
W. H. HIDAY.

Men who have helped build up the business of The Inland Seed Co.



Mr. J. L. McDonald entered the seed business 20 years ago with the predecessor of The Inland Seed Co., and remained with the new firm when they assumed charge.

He has had a wonderful opportunity to thoroughly learn every detail of the business, as he has watched its growth and advancement each succeeding year and has by study and application kept himself fully posted on the expanding trade and other conditions. He is now our seed expert and is thoroughly familiar with the seed laws of the different states; likewise familiar with the history and peculiarities of most of the different varieties of seeds.



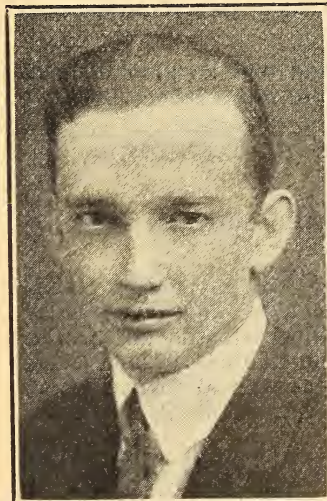
Mr. F. A. Litts, our veteran road salesman, has been associated with The Inland Seed Co. for the past 12 years. He was formerly employed by one of the large eastern seed houses as their field man and has had a great deal of experience in the selection, growing, care and harvesting of corn, peas, beans, etc., and has given of his knowledge and experience without reserve for the sole purpose of assisting The Inland Seed Co. to put upon the market the best grade of seeds that has ever been offered to the public.

His practical knowledge enables him to render valuable assistance to our customers when placing their seed orders.



Mr. B. F. Ellis has had considerable experience in grain, as at one time he successfully operated a grain farm in the Big Bend country. In addition he has had a great deal to do with warehouses, and is able at a glance to very nearly estimate the weight per bushel of any variety of wheat and to give the characteristics peculiar to each.

During his 12 years of faithful services with The Inland Seed Co. he has been store salesman, and has a thorough knowledge of every article in the store, and is competent to wisely advise customers in their purchases, and will gladly do so when he has opportunity.



Mr. Ian C. MacDonald, a young, conscientious Canadian, has been giving a good account of himself the past six years. Raised on a Canadian farm, accustomed to hard work, he is not satisfied unless the close of each day sees something worth while accomplished. By careful study and untiring effort he has made himself familiar with our entire line, and has specialized on bulbs, plants, etc.

For the past two years he has faithfully represented us in the country from Hood River, Oregon, to Pocatello, Idaho, and elsewhere. In common with the entire staff and force of The Inland Seed Co., he is a firm believer in quality.

It is with a great deal of pleasure and pride that we present a review of these four worthy assistants.

The seed business requires specially trained men, and the management of The Inland Seed Co. attributes a great deal of their success to the knowledge, faithfulness and dependability of these here presented. With their co-operation The Inland Seed Co. has been enabled to build up a reputation for honest dealing and for superior quality.

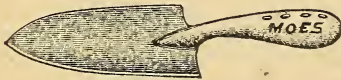
THE INLAND
SEED CO.

An Appreciation

We want to assure our cutsomers of our high appreciation of their loyalty and support during the year 1923. While we have at all times put forth every effort to give prompt service, without doubt there have been instances during our spring rush when our services have not been as prompt as they should have been, in such cases we want to express thanks for patience and consideration shown.

PREMIUMS WITH ORDERS

Note Cuts, Prices and Quality of Goods here shown:



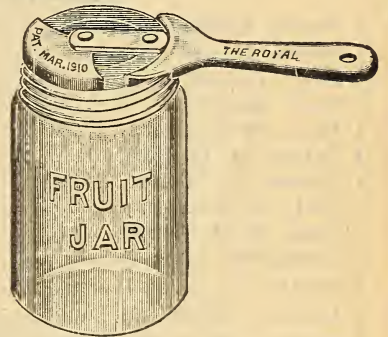
No. 85 Galvanized Garden Trowel. Made of a single piece of heavy galvanized steel. Handle and blade all in one piece. Length of blade, six inches. Price 20c; postpaid, 25c.



No. 87—Hand Weeder. Made of one piece of hard, stiff steel. Ground edges and black enameled handle. Price, 25c; postpaid, 30c.



No. 45—All steel Trowel. Made of one piece of heavy gauge steel with handle shaped to fit the hand. Sharpened point. Very strong and substantial, yet light to handle. Price, 35c; postpaid, 40c.



No. 65—Mason Jar Wrench. Invaluable for sealing jars absolutely tight. Made of heavy pressed steel, and practically unbreakable. Price, 20c; postpaid, 25c.

When order for vegetable and flower seeds amount to \$2.00 we will give free, postpaid, either Number 85 or 65.

When order amounts to \$3.00, No. 87 will be given.

When order amounts to \$5.00, No. 45 will be given.

The only condition attached is that these free goods be asked for when order is placed, as free goods will not be sent unless they are asked for.

THE INLAND SEED CO.

SPOKANE, WASHINGTON

SPECIAL ASSORTMENTS

We are pleased to herewith record the almost universal approval of our seeds by critical planters and exacting gardeners.

We appreciate the freewill testimonials received, and give assurance that we are still striving for better quality and truer strains.

The seeds offered by The Inland Seed Co., either in packages or bulk, cannot be surpassed in quality by any other seed house, no matter how old the seed house may be or where located.

All varieties and strains selected for their adaptability to the great Northwest.

Assortment No. 1, 50c., Prepaid

1 Beet, Detroit	5c	1 Parsley, Moss Curled	5c
1 Carrot, D. H. Long	5c	1 Parsnip, Hollow Crown	5c
1 Corn, G. Bantam	5c	1 Radish, Scarlet Globe	5c
1 Cucumber, Long Green	5c	1 Radishes, W. Icicle	5c
1 Lettuce, E. C. Simpson	5c	1 Turnip, P. Top Globe	5c
1 Onion, Y. G. Danver	5c		
1 Onions, S. W. Globe	5c		
		Total	60c

Assortment No. 2, \$1.00, Prepaid

1 Beans, Golden Wax	5c	1 Musk Melon, Rockyford	5c
1 Beans, G. Stringless	5c	1 Onion, Y. G. Danver	5c
1 Beet, Detroit	5c	1 Onion, S. W. Globe	5c
1 Beet, Egyptian	5c	1 Parsley, Moss Curled	5c
1 Beet, Swiss Chard	5c	1 Parsnip, Hollow Crown	5c
1 Carrot, D. H. Long	5c	1 Peas, Gradus	5c
1 Carrot, Ox Heart	5c	1 Peas, Little Gem	5c
1 Corn, G. Bantam	5c	1 Pumpkin, Sugar	5c
1 Corn, E. Minnesota	5c	1 Radish, Scarlet Globe	5c
1 Cucumber, Long Green	5c	1 Radish, W. Icicle	5c
1 Endive	5c	1 Spinage, Long Standing	5c
1 Lettuce, Prizehead	5c	1 Turnip, P. Top Globe	5c
1 Lettuce, E. C. Simpson	5c		
		Total	\$1.25

Assortment No. 3, \$1.00, Prepaid

1 Beet, Detroit	5c	1 Parsnip, Hollow Crown	5c
1 Beet, Egyptian	5c	1 Pumpkin, Sugar	5c
1 Carrot, D. H. Long	5c	1 Radish, Scarlet Globe	5c
1 Carrot, Oxheart	5c	1 Radish, White Icicle	5c
1 Cucumber, Long Green	5c	1 Spinage, Long Standing	5c
1 Lettuce, Pighead	5c	1 Turnip, P. Top Globe	5c
1 Lettuce, E. C. Simpson	5c	1 Beans, Golden Wax	15c
1 Musk Melon, Rockyford	5c	1 Corn, Golden Bantam	15c
1 Onion, S. W. Globe	5c	1 Pea, Gradus	15c
1 Parsley	5c		
		Total	\$1.25

Assortment No. 4, \$1.00, Prepaid

1 Beans, Golden Wax	15c	1 Pea, A. Wonder	15c
1 Bean, Green Stringless	15c	1 Pea, Gradus	15c
1 Beet, Egyptian	15c	1 Turnip, P. L. S. Leaved	15c
1 Carrot, D. H. Long	15c		
1 Corn, Golden Bantam	15c	Total	\$1.20

Assortment No. 5, 50c., Prepaid

1 Sweet Pea, Mixed	15c	1 Candytuft	5c
1 Nasturtium, Mixed	15c	1 Pansy, Mixed	10c
1 Aster, Mixed	10c	1 Sweet Alyssum	5c
1 California Poppy	5c		
		Total	65c

THE INLAND SEED CO.

Spokane, Washington

Fertilizers Bring Results



The above cut represents a bunch of Celery that was awarded first prize at the Spokane Interstate Fair, fall of 1923. This shows in a very marked degree what a combination of seed, cultivation and fertilizing will do. Care is important, but without the impetus to be derived from strong germinating seed of good type and suitable fertilizer to produce quick growth and best quality, the care given this celery would have been wasted. More rapid growth is secured by the use of fertilizer and the more rapid the growth of vegetables, the more brittle and tender the vegetables are. This grower has used this same brand of fertilizers for a number of years and has always obtained satisfactory results. This same celery grower secured first prize at the State Fair, because of his combination of seed and fertilizer.

The Inland Seed Company's

1924 Seed Catalogue 1924

Seeds

ARTICHOKE TUBERS

Planted and cultivated the same as potatoes. Of great value for feeding stock. They are the best hog feed known. They are remarkable for their fattening properties, and great productiveness. One lb., postpaid, 20c; at purchaser's expense, 50 lbs., \$2.00; 100 lbs., \$3.50.

ASPARAGUS SEED

CULTURE—Sow in early spring in rows; when one year old the roots may be taken up and transplanted in permanent beds, which should be made by taking out the soil to a depth of about 16 inches, fill in with six inches of well rotted stable manure, then 6 inches of soil, somewhat firmed, and place the roots on the same about 10 inches apart with the roots well spread out and cover



so that the crown will be about four inches below the surface.

PALMETTO—This variety is very desirable on account of its earliness, bright green color, presenting an attractive appearance, excellent flavor and productiveness. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 60c; 1 lb., \$1.10.

Beans

All Our Beans Are Hand Picked.

It is a fact worth emphasizing that in order to secure the best results from seeds that the seeds themselves should be fully matured, well developed, of good germination, and capable of strong, vigorous growth. In order to secure these very essential and necessary qualities, we are having our wax and green podded bush varieties grown in Washington and Idaho. In localities especially suited to their growth and culture.

CULTURE—Beans should not be planted until the ground is warm, as cold and wet weather will cause the seed to rot. For garden culture plant four or five seeds in hills one foot apart, in rows 18 inches apart. For field culture, make the rows 3 or 3½ feet apart, and cover with two inches mellow soil.

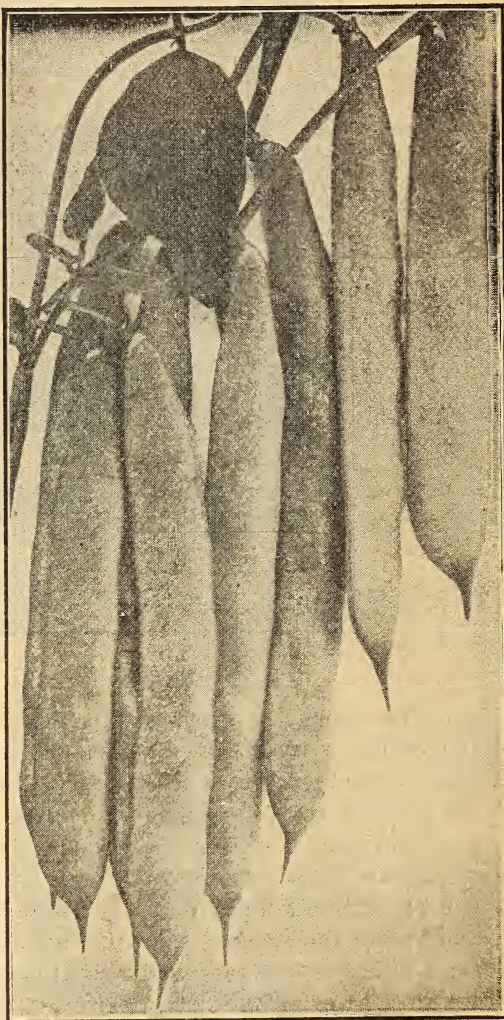
Bush, Wax Podded

All varieties of Wax Beans, 35c lb., postpaid; at purchaser's expense; 1 lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$7.50; 100 lbs., \$13.50.

BLACK WAX, PROLIFIC—This improved strain of Black Wax we offer under this name is exceptionally productive, very hardy, reliable and of the best quality. It is very extensively used for snaps for the home garden and market. The plants are medium sized, erect in

growth, with small foliage, very vigorous, early intermediate in season with longer bearing period than most sorts. The pods are of medium length four and one-fourth to four and one-half inches, borne well up from the ground, curved, cylindrical and fleshy. They are of a clear, light golden yellow color and remain a long time in condition for use as snaps. Seed small, oblong, jet black.

DAVIS WAX—This is also called White Kidney Wax. It is a well known market sort, much used for shipping. The plants are very hardy and productive and the variety is very desirable where a handsome wax-podded, white seeded intermediate sort is wanted. The plants are very vigorous. The pods are remarkably long, about 6 inches, sometimes longer. They are handsome, light yellow, straight, very attractive and when young are crisp and tender. The dry beans are excellent for baking. Seed medium large, kidney shaped, clear white.



Golden Wax

GOLDEN WAX IMPROVED—This is one of the earliest and best dwarf sorts for

the home market and private gardens. The plants are erect, compact, and very productive. The pods are of medium length, four and one-half to five inches, nearly straight, broad, flat, golden yellow, very fleshy and waxlike. Seed medium sized, oval, white, more or less covered with two shades of purplish red. The amount and shade of color on this and all partially colored beans will be affected greatly by conditions of soil and ripening.

WARDELL'S KIDNEY WAX—This standard variety maturing a little later than Golden Wax, yields a large crop of long, nearly straight, broad, light golden yellow-handsome pods. These are of large size, about six inches long, and are of good quality. They always command a ready sale, making the variety one of the most profitable for the market gardener as well as shipper. This is also very extensively used for snaps for the home garden. The plants are strong growing and bear their long pods well up from the ground. The leaves are large, broad and slightly roughened. Seed large, flattened, kidney shaped, white, with dark markings about the eye.

All varieties of Wax Beans, 35c lb., postpaid; at purchaser's expense: 1 lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$7.50; 100 lbs., \$13.50.

Bush, Green Podded

REFUGEE, EXTRA EARLY—A very early, green-podded variety, with medium-sized, green, fleshy pods; seed drab, freely spotted with dark purple. The vines are smaller and of more upright growth, and leaves a little larger than the late Refugee. The pods are round and make an attractive appearance when shipped to market. Their color is lighter than most of the green beans.

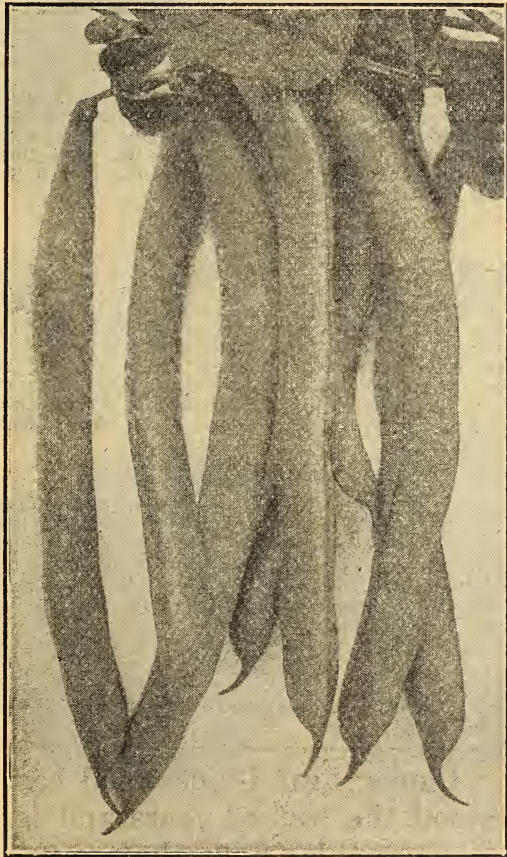
STRINGLESS, GREEN—Very desirable dwarf green podded snap sort for the home garden and largely grown for the market. The plants are large, spreading and productive. The pods are medium green, five to six inches long, cylindrical, and remain crisp and tender long. Seed medium size and length, yellowish brown.

Refugee and Stringless. Lb., 35c, postpaid; at purchaser's expense, 1 lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$7.50; 100 lbs., \$13.50.

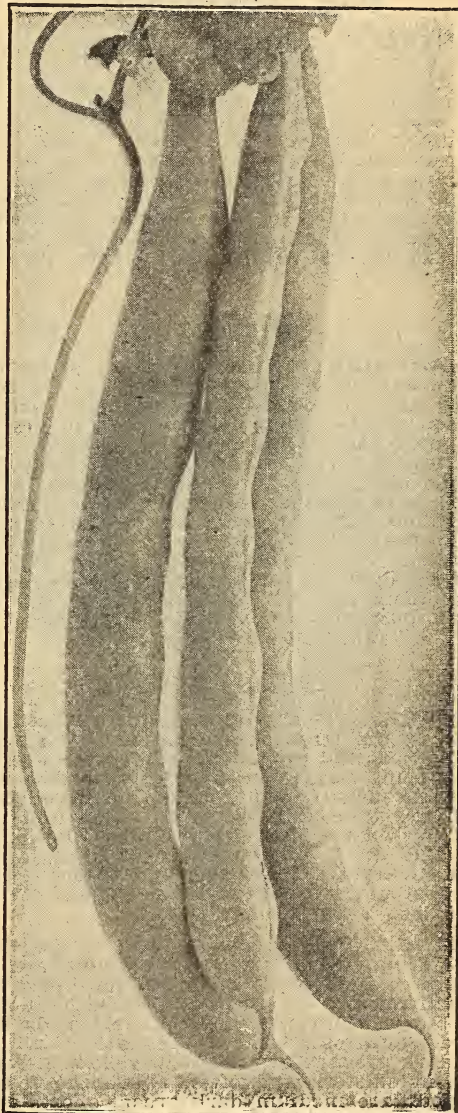
Pole, Green Podded

Although Pole Beans require considerable care and labor, they are, when properly grown, usually of longer bearing period than the Dwarf sorts and are generally more productive.

DUTCH CASE KNIFE—The vines of this well-known green podded kidney bean for green shell use are of good climbing habit, but twining rather loosely and may be used for a corn hill sort of medium season. It is used for snaps when quite young. The leaves are large and crumpled. The pods are very long, seven to eight inches, flat, irregular, medium green, becoming lighter as they mature. Seed broad, kidney shaped, flat, clear white and of excellent quality whether used green or dry. Lb., 40c, postpaid; at purchaser's expense: 1 lb., 35c; 5 lbs., \$1.40; 10 lbs., \$3.00.



Green Stringless



Kentucky Wonder

BEANS—Continued

KENTUCKY WONDER—Also known as Old Homestead. We believe this variety is the most practically useful of the green podded pole beans suitable for use as snaps. It is early, very prolific, with showy pods which are of most excellent quality. The vines are vigorous, climbing well, bearing pods in large clusters. The pods are medium light green, very long, often reaching 9 or 10 inches, curved and twisted, nearly round and very crisp when young, becoming very irregular and spongy as the beans ripen. Seed long, oval, slightly flattened, dun colored. One of the very best early pole snap beans for the home garden or market. Lb., 40c., postpaid; the home garden or market.

LAZY WIFE—The pods are produced in large clusters in great abundance and are from four to five inches in length. Dark green, rather flat but broad, quite thick, fleshy and entirely stringless, retaining their brittleness until fully developed; of unusually rich flavor. Kentucky Wonder and Lazy Wife: Lb., 40c postpaid; at purchaser's expense; 1 lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.50; 25 lbs., \$5.75; 50 lbs., \$10.00; 100 lbs., \$18.00.

Pole, Wax Podded

KENTUCKY WONDER—Yellow podded bears a large quantity of rich, golden-yellow pods from the time the plant is about half-grown until it is killed by frost in the fall. The plant makes a quick, healthy growth, and is exceedingly productive, bearing large pods, which are thick, meaty, stringless; very tender, and have a fine flavor when cooked. This variety is very popular, both for the home garden and for market. 1 lb., 40c postpaid at purchaser's expense; 1 lb., 35c; 5 lbs., \$1.65; 10 lbs., \$3.00; 25 lbs., \$6.75; 50 lbs., \$11.00; 100 lbs., \$20.00.

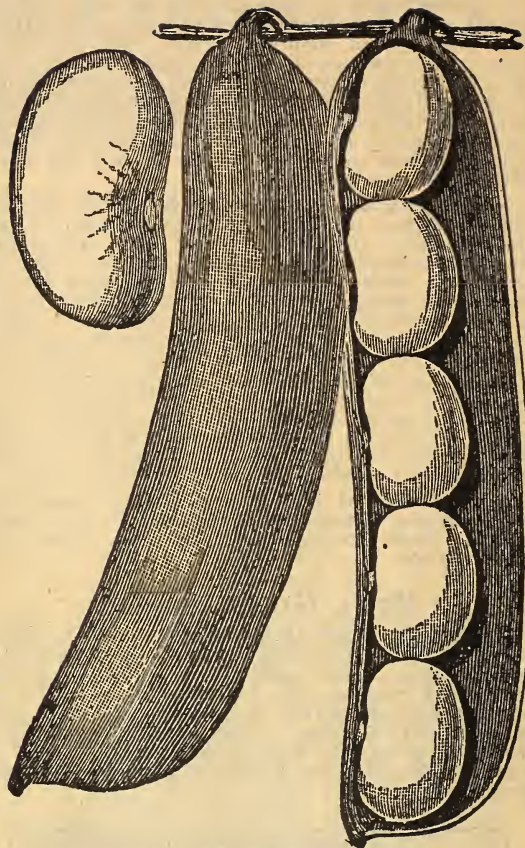
Shelled

DWARF HORTICULTURAL—One of the best dwarf sorts for green shell beans for the home garden and market and can be used early as a green podded snap bean. The plants are very productive, compact and upright, with large leaves. The mature pods are about five and one-half inches in length, broad and thick, curved, with splashes of bright red on a yellowish ground. They become fit for use as green shelled beans early and in this condition the beans are very large, easily shelled and are about equal to the Lima in quality. Seed large, oval, plump, pale buff splashed with deep red. Lb., 45c postpaid; at purchaser's expense. 1 lb., 40c; 5 lbs., \$1.75; 10 lbs., \$3.00.

Limas, Bush

BURPEE'S—This is a little the earliest maturing of the large seeded Limas. The plants are vigorous and productive. The pods are medium green, very large, about five inches long, thick and usually contain four or five beans, which are unusually thick, of large, and usually shows a greenish white tinge. One of the best and most extensively used bush Limas for the market as well as home garden. 1 lb., 40c, postpaid; at purchaser's expense, 1 lb., 30c; 5 lbs., \$1.50; 10 lbs., \$2.75.

HENDERSON'S—A dwarf form of the Small White Lima, valuable on that account, and because of its extreme earliness, hardiness and productiveness. The plants are without runners but continue to grow and set pods until stopped by frost. The leaves are small and very dark green; flowers small, yellowish-white, borne in clusters and often above the foliage. The pods are medium dark green, short, about two and three-fourths inches, flat and contain two to four beans which are of excellent qual-



Burpee's

ity either green-shelled or dry. This is much used by canners, as well as for home and market garden use. Seed small, flat and white with slight tinge of yellow. 1 lb., 40c, postpaid, at purchaser's expense; 1 lb., 30c; 5 lbs., \$1.50; 10 lbs., \$2.75.

Limas, Pole

EARLY JERSEY—This variety is one of the earliest of the pole Limas. Pods are four inches in length and contain three and four large beans each. It is specially recommended for this northern latitude, as it gives much better results than can be obtained from any of the other varieties on account of its earliness and productiveness. 1 lb., 40c, postpaid; at purchaser's expense: 1 lb., 35c; 5 lbs., \$1.65; 10 lbs., \$3.00.

Ornamental

SCARLET RUNNER—Ornamental and useful. The vine is graceful, flowers are of a brilliant scarlet, and the beans are of an excellent quality, either when shelled or in a dry state. Oz., 10c; 1/4 lb., 20c; 1/2 lb., 30c; 1 lb., 45c, postpaid; at purchaser's expense; 1 lb., 40c; 5 lbs., \$1.65; 10 lbs., \$3.00.

Field

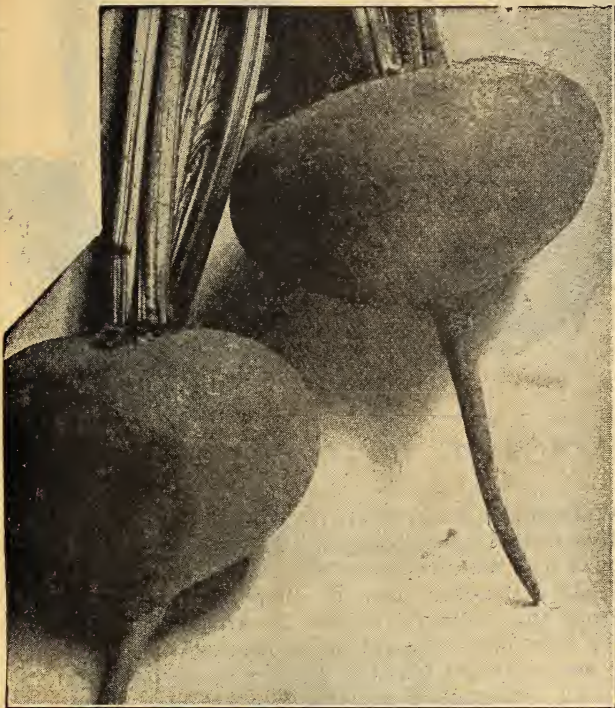
NAVY—Write for prices, stating quantity wanted.

Clover Leaf Chick Feed has stood the test of years and is more popular now than ever.

Beets

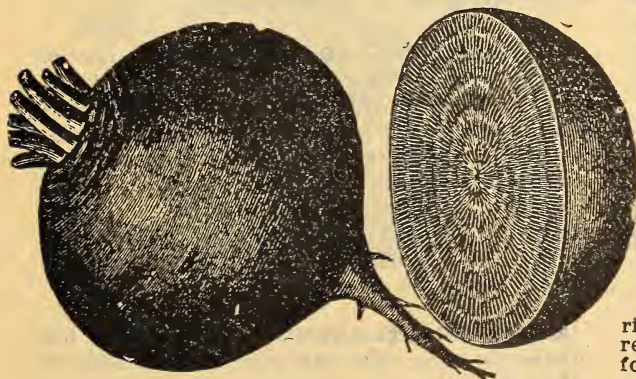
CULTURE—The soil should be deep, rich and mellow, plowed deep and harrowed until very fine. Drop about one inch deep in drills 12 to 18 inches apart, and when well up thin to four or six inches. The tops of the young beets can be used for greens.

All the different varieties of beets, unless otherwise quoted: Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 60c; 1 lb., \$1.00; postpaid; at purchaser's expense; 5 lbs., \$4.00; 10 lbs., \$7.00.



Edmunds' Blood Turnip

BLOOD TURNIP, EDMUNDS—An extra selected stock of Blood Turnip. The roots are dark red and nearly round or slightly flattened. The flesh is deep red, zoned with lighter shade, sweet, crisp and tender. This is an excellent market and home garden sort for summer and autumn use.



Detroit Dark Red

DETROIT DARK RED—We believe this is the best beet for the market and home garden, and

on account of its uniformly deep rich color the most desirable for canning. The tops are small and upright in growth. The leaves are dark green, shaded with red. The roots are medium sized, globular or nearly round, very smooth and of dark blood red color. The flesh is deep vermilion red, zoned with a lighter shade of the same color. The variety is very desirable for bunching. Careful comparisons with all prominent varieties on the market prove that Detroit Dark Red is the most uniform in shape and size and the most attractive in color. It is unsurpassed in quality.

EGYPTIAN, CROSBY'S—One of the earliest and best strains of Beets. It is a decided improvement over the well-known Extra Early Egyptian, being equally as early, but larger and more round in form. The roots run uniform in size and shape, have small tops, just right for early bunching. The flesh is deep red, sweet, tender, and of excellent quality. Crosby's Egyptian is fit for the market earlier than most other kinds. It develops its fine turnip shape already in the early stages of its growth and on that account it is also preferred to most other kinds, which take a much longer time to grow to a proper maturity.

HALF LONG BLOOD—An old and popular variety, especially desirable for fall and winter use, as it does not become woody, and keeps better than the turnip shaped varieties. The root is smooth and handsome and the flesh is a bright red and of good quality.

All the different varieties of beets, unless otherwise quoted: Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 60c; 1 lb., \$1.00, postpaid; at purchaser's expense; 5 lbs., \$4.00; 10 lbs., \$7.00.



Swiss Chard

SWISS CHARD OR SEA KALE—This variety does not produce an edible root like the regular garden beet, but is highly esteemed for the broad, white leaf stalks and midribs, which are cooked and served in the same manner as asparagus, making a most delicious vegetable. The leaves are also cooked like spinach. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.75.

MANGEL WURTZELS



Golden Tankard

"Sludstrup"

"Eckendorf"

Giant Half Sugar

The great importance of growing Mangel Wurtzel and Sugar Beets for stock feeding is becoming more and more apparent to the progressive farmer, on account of their immense yield, and their fine feeding qualities. In order to secure seed from the very best types, we are contracting with European and American growers that are looked upon by their competitors as real experts. This seed costs us more than seed from the ordinary strains grown by ordinary growers, but we have always believed that quality is of more importance than price, and judging from the increase in our sales each year, we are convinced that the farmers are recognizing and appreciating the high quality of our seeds. All varieties of Mangel Wurtzel and Sugar Beets. Oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 40c; lb., 75c, postpaid. At purchaser's expense, 1 lb., 70c; 5 lbs., \$3.00; 10 lbs., \$5.00.

DANISH SLUDSTRUP—The Danish Government encourages the growing of root crops by offering certificates of merit to growers who select and produce sorts which are of distinctive value. Sludstrup is considered the best of all mangels, having been awarded first class certificate. In color it is reddish-yellow and of a distinct type. It contains the largest per cent of nutriment found in any sort. It is very hardy, grows well above ground and is easily pulled.

GIANT HALF SUGAR—Is very much more valuable for feeding purposes than the old sorts, it being very much richer. In addition to this, the size and form have been improved until it yields as much per acre as the best mangels, and twice as much per acre as the rich sugar beet seed; is much easier handled, keeps better and is in every way most valuable to the farmer. Roots large, oval in form, very smooth, with few rootlets; tops small, flesh white.

GIANT RED ECKENDORF — A very popular variety. The roots are smooth, long and cylin-

drical in shape, very much like the tankard mangels. They are very heavy, weighing up to 15 and 20 pounds each. The flesh is firm, crisp and solid, white in color and of high feeding value. This variety is easily harvested, a large proportion growing above ground.

GOLDEN TANKARD (Improved)—A special feature is the rich, deep yellow color of the flesh, differing in this respect from other Mangels, surpassing them in milk-producing qualities. The roots are of large diameter, tapering quickly at the bottom, which is quite broad, with only a small tap-root. It grows largely above the soil and is easily harvested. It yields an enormous bulk on good land, and can be grown closely in rows.

KLEIN WAUZLEBEN — This variety has proved to be a very valuable sort, on account of its richness in saccharine matter thus demonstrating its superiority for feeding purposes. Roots rather long, slender growing into the ground. A great yielder.

Cabbage

MAMMOTH LONG RED—This is the heaviest cropping and largest of all mangels. The roots grow from one-half to two-thirds above the surface and are frequently two or more feet in length by six inches in diameter. Dark, richly colored foliage, skin dark red, flesh white with veined rings of rose-pink.

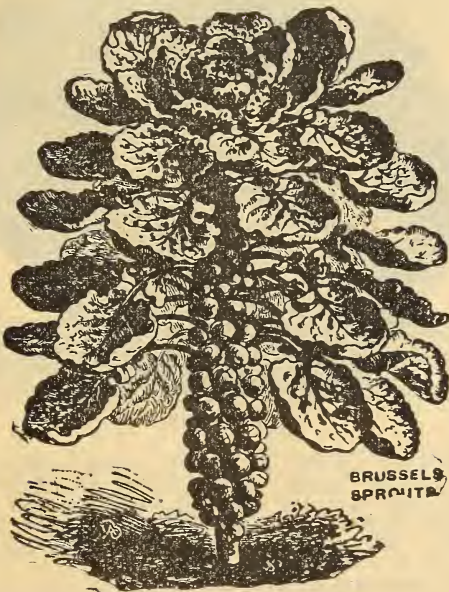
All varieties of Mangel Wurtzel and Sugar Beets: Oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 40c; 1 lb., 75c, post-paid; at purchaser's expense, 1 lb., 70c; 5 lbs., \$3.00; 10 lbs., \$5.00.

Cabbage is recognized as a crop that usually can be depended upon for good returns. The cost of seed per acre is very small, but the quality of seed you obtain is all important. Do not sacrifice quality. Obtain the best. Our seed is secured from the most reliable growers, gives best results, and better satisfaction than the ordinary strain of cabbage.

CULTURE—For early cabbages sow the seed in a hot-bed in March or April, covering the seed from ¼ to ½ an inch deep and, when big enough, transplant to another bed. As soon as the ground is in good condition transplant, outside, in rows 2 feet apart and 15 to 20 inches in the row.

CLOVER LEAF COPENHAGEN MARKET—This superb new cabbage is undoubtedly without a rival as the finest large round-headed early cabbage in cultivation. The type is thoroughly fixed, the heads maturing all at the same time (this being a great consideration to market gardeners, entailing less labor in harvesting the crop, and allowing the ground to be cleared at the first cutting). The heads average about 10 pounds each in weight, are very solid, with small core and of fine quality. It matures a little later than the Early Jersey Wakefield, and will give a much heavier yield per acre than that popular variety. The plant is short-stemmed, the heads being produced almost on the ground level. The leaves are light green, rather small, saucer-shaped, and always tightly folded. The plants, therefore, can be set closer than is usual with varieties of similar size. Pkt., 10c; oz., 35c; 2 oz., 65c; ¼ lb., \$1.15; ½ lb., \$2.00; 1 lb., \$3.50.

BRUSSELS SPROUTS



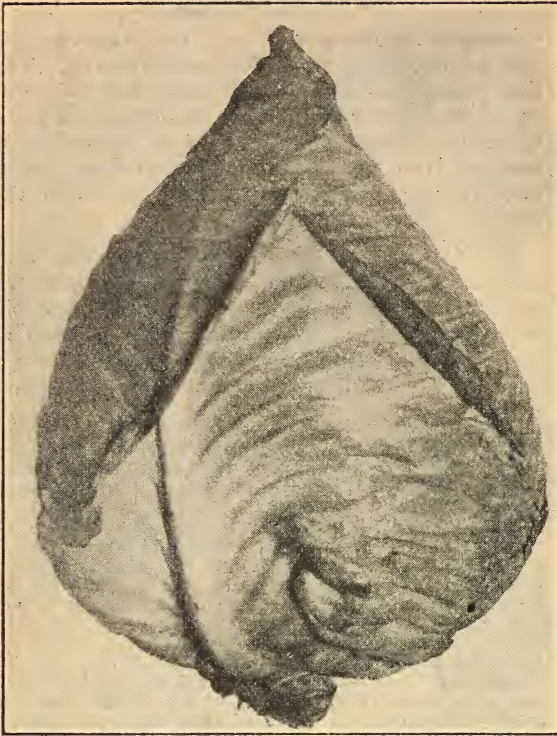
Cultivated for the small heads that grow in considerable numbers from the main stem. It is a delicacy much esteemed by some. Sow in seed bed middle of spring and transplant and manage as winter cabbage. Pkt., 5c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00.

First Early



Copenhagen Market

CABBAGE—Continued



Early Jersey Wakefield

EARLY JERSEY WAKEFIELD—The earliest and hardiest heading of extra early cabbages. Most gardeners depend upon it for the bulk of their extra early crop. Heads conical, very compact, solid and of excellent quality. The thick, stout leaves and compact habit make it the best sort for very early setting. Pkt., 5c; oz., 30c; 2 oz., 55c; ¼ lb., 90c; ½ lb., \$1.50; lb., \$2.75.

Second Early

All second early cabbage. Except otherwise quoted. Pkt., 5c; oz., 30c; 2 oz., 55c; ¼ lb., 90c; ½ lb., \$1.50; lb., \$2.75.

ALL HEAD EARLY—This excellent second early market sort produces heads that are very large for so early a cabbage and of very good quality. It is desirable not only for general spring planting but by planting late it can be used as a fall and early winter cabbage. The variety is well adapted for kraut. The plants are compact, with few outer leaves which are comparatively smooth and rather thick. The stem is short. The heads are solid and flat but very deep.

GLORY OF ENKHUIZEN.

Although this is very early for a round-headed cabbage, it is a splendid keeper and is excellent for winter use. The heads are of good size, almost perfectly round, extremely solid and heavy, deliciously tender and of the finest quality. The plants are of vigorous growth and are sure heading.

EARLY WINNINGSTADT—One of the best of the second early or medium early sorts, very hardy, with a very hard sharply pointed head and a very sure cropper. Owing to its compact and upright habit of growth and peculiar texture of its rather short and thick, dark green leaves, the variety resists cold, wet and insect pests exceptionally well. The heads are of me-

dium size, very closely wrapped, sharply conical, of good quality. The leaves are dark bluish green.

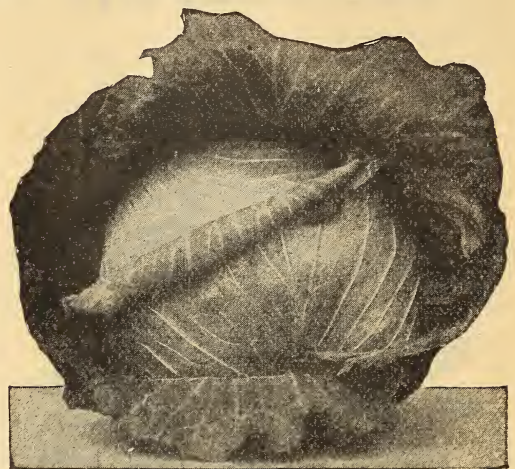
All second early cabbage, except otherwise quoted: Pkt., 5c; oz., 30c; 2 oz., 55c; ¼ lb., 90c; ½ lb., \$1.50; lb., \$2.75.

Late



Danish Ball Head

CLOVER LEAF HOLLAND OR DANISH BALL HEAD—Short stemmed. Most remarkable late cabbage yet produced. This is one of the hardiest cabbages in cultivation, and endures both frost and drought that would destroy other varieties. The plants are hardy and compact; leaves very smooth, but thick; heads of medium size, round and very solid, being the hardest heading cabbage and of the very best quality. Matures quite late, keeps well and is considered by many the best cabbage to keep until spring. Pkt., 5c; oz., 35c; 2 oz., 65c; ¼ lb., \$1.15; ½ lb., \$2.00; lb., \$3.50.



Flat Dutch

DUTCH, LATE, FLAT—A low-growing variety; heads large, bluish green, round, solid, broad and flat on top; an excellent fall and winter variety; a good keeper; and a sure header. Pkt., 5c; oz., 30c; 2 oz., 55c; ¼ lb., 90c; ½ lb., \$1.50; lb., \$2.75.

DRUMHEAD SAVOY—The best variety of Savoy or crumpled leaf cabbage. The plant is vigorous, with short stem, has densely crumpled leaves and when touched by frost is sweet, delicate and delicious. The head is large and very solid.

ROCK RED—Best red sort, much used for pickling.

SAVOY AND ROCK RED. Pkt., 5c; oz., 35c; 2 oz., 65c; ¼ lb., \$1.15; ½ lb., \$2.00; lb., \$3.50.

Carrots

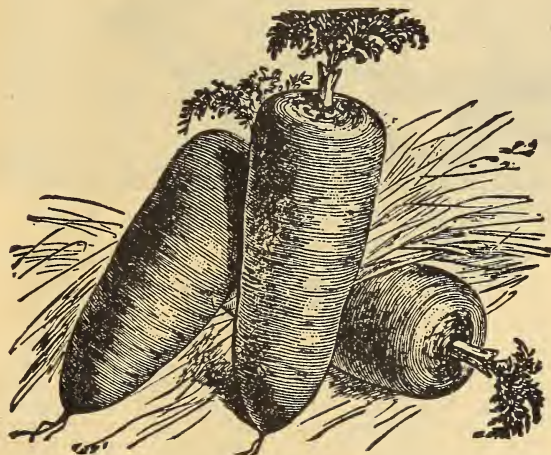
Few people realize that Carrots contain a very large amount of starch, the main constituent of both bread and potatoes. Carrots are also rich in sugar. Easily grown, rarely if ever attacked by insects, and very rich in food value. Carrots should be grown much more largely in the garden. When too large for table use, Carrots make a splendid stock food, hence there is no loss.

CULTURE—The carrot, like other root crops, delights in a sandy loam, deeply tilled. For early crops, sow in the spring as soon as the ground is in good working order; for late crops sow any time until the middle of June.

Carrots—Table

Chantenay—Half-Long, Long Orange and Oxheart: Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25, postpaid; at purchaser's expense, 5 lbs., \$5.00; 10 lbs., \$9.00.

CHANTENAY—Early, scarlet color, stump rooted, broad, thick shoulder, heavy cropper. Fine quality. In shape and appearance it takes a place between the Oxheart and the Danvers Half Long.



Danvers Half Long

DANVERS HALF-LONG, IMPROVED — A first-class carrot for all soils. The root is of a rich, dark orange color and grows very smooth and handsome. Very productive, producing as much tonnage to the acre as the longer field sorts, and is much easier harvested.

LONG ORANGE, IMPROVED—A deep orange colored variety. Heavy cropper. Good for either garden or field culture, especially adapted for light, deep soils where it can be easily dug, as the roots penetrate farther into the soil than other varieties. Grows fairly thick and entirely under ground, thereby avoiding green shoulders.

OHEART OR GUERANDE—A thick carrot, five or six inches long and very blunt at the lower extremity. It grows more rapidly and the root attains a weight of more than a pound. It is tender and of good flavor, and a variety that we can recommend to all market gardeners.

Chantenay — Half-Long, Long Orange and Oxheart: Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25, postpaid; at purchaser's expense, 5 lbs., \$5.00; 10 lbs., \$9.00.



Oxheart

FRENCH FORCING—This is an excellent variety, both for forcing in cold-frames and for sowing in the garden for the earliest supply. The small roots are round in form, one and a half inches in diameter, smooth, tender, and of fine flavor.

SCARLET HORN, EARLY—A very early variety. Recommended for the very early market and family garden. Texture fine; very delicate in flavor.

FRENCH FORCING AND SCARLET HORN—Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; lb., \$1.35, postpaid; at purchaser's expense, lb., \$1.25; 5 lbs., \$5.75; 10 lbs., \$10.00.

Carrots—Stock

All stock carrots: Oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 60c; 1 lb., \$1.00, postpaid; at purchaser's expense; 5 lbs., \$4.00; 10 lbs., \$7.00.

WHITE BELGIAN—Grows one-third out of the ground. Root pure white, green above the ground. The flesh is of deep yellow color, tender and of excellent flavor.

YELLOW GIANT OR SAN JOSE CHAMPION—This carrot is a half-long variety, with an immense broad shoulder. The roots penetrate less than one-half the depth into the ground. The color is a bright yellow, and is perfection for giving the proper color to your butter.

Examine page 120 and investigate merits of Ryde's Cream Calf Meal. Sell your milk and at the same time raise your calves. It is cheaper than milk and as good results obtained when this is fed instead.

Cauliflower

CAULIFLOWER—Cauliflower, although one of the most delicious vegetables, is but little grown except by professional gardeners because of the erroneous notion that it is so difficult to grow that only skilled gardeners can produce it. Any one will be reasonably sure of success with this most desirable vegetable if the cultural directions given below are carefully followed.

The Cauliflower is highly esteemed for the mild, delicate flavor and extreme tenderness of the solid white heads.

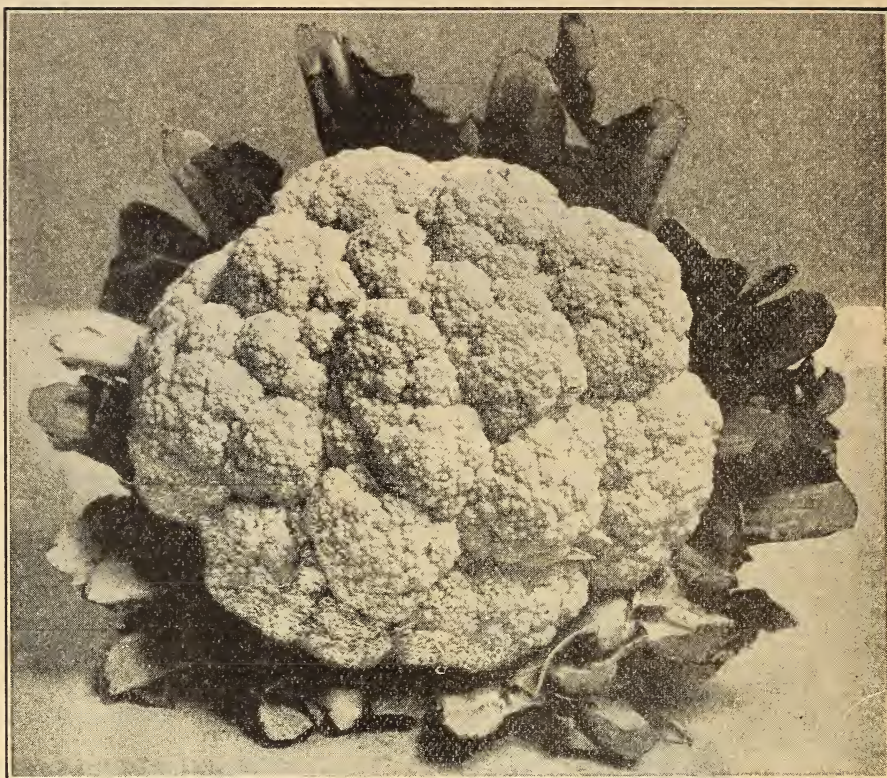
CULTURE—The soil for cauliflower should be like that for cabbage, but is better if made richer than is ordinarily used for that crop. It should be borne in mind that cauliflower will not head up good in hot, dry weather, and hence the sowing should be so regulated as to bring it to maturity either before the hot summer weather sets in or not until the cooler weather of the fall. After the heads begin to form, draw the leaves over and pin or tie them together to protect the heads from the sun and keep them white.

Early

CLOVER LEAF SNOWBALL (Best Imported Strain)—This is an improved extra early strain of dwarf, compact growth. Under favorable circumstances nearly every plant will make a fine, solid head of good size. It is valuable for both early and late. Pkt., 15c; ½ oz., \$1.50; oz., \$2.50; 2 oz., \$4.50; ¼ lb., \$8.00.

DANISH GIANT OR DRY WEATHER—(Best Imported Stock)—Large leaved, with pure white compact heads. It is truly a first-class cauliflower and is specially adapted to dry locations and to resisting the effects of drouth. Two weeks later than the Snowball, when planted at same time. Pkt., 15c; ½ oz., \$1.75; oz., \$3.00; 2 oz., \$5.50; ¼ lb., \$10.00.

SIX WEEKS—This is a new variety we are offering for the first time. As its name implies it is a very early variety and one that has been thoroughly tested by the originator and grower. This has been placed upon the market by a well-known and reliable Holland grower and we are assured that it is earlier than the Snowball and equally as good. It is therefore a variety that should appeal to cauliflower growers. Price, pkt., 15c; ½ oz., \$1.75; oz., \$3.00; 2 oz., \$5.50; ¼ lb., \$10.00.



Snowball

Celery

Finely blanched Celery is one of the most popular and attractive vegetables for the table during fall and winter. Would advise making two plantings where wanted for either home use or market. For the earliest crop the seed should be sown in hotbeds during February or March, and the young plants set in rich soil as soon as large enough, after the trees start out in leaf. For the fall or main crop seed may be sown in the open ground as early in the spring as the soil can be worked in good condition, and the plants should be set in the rows during July.

CULTURE—Sow in light, rich soil, in shallow drills, and cover the seed lightly with finely sifted mold. When the plants are 5 to 6 inches high transplant to rows 3 to 4 feet apart, according to the variety, allowing 8 inches between the plants in the row. Cultivate freely and earth up to blanch the stems, pressing the soil firmly around the plant almost to the top, care being taken not to cover the tops of the center shoots.

Early

WHITE PLUME—(French grown.) A very popular variety on account of its naturally white leaf stalks, which require less blanching than the other kinds. It is early, a fine market sort and the variety mostly used by gardeners. Pkt., 5c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00; ½ lb., \$1.75; 1 lb., \$3.25.



White Plume Celery.

Medium

GOLDEN SELF-BLANCHING — (French grown.) It is of a rich, golden tint when ready for the table; very handsome and of excellent quality. Pkt., 10c; oz., 60c; 2 oz., \$1.00; ¼ lb., \$1.75; ½ lb., \$3.25; 1 lb., \$6.00.

EASY BLANCHING — A medium early variety of recent introduction and of great merit. Of dwarf and compact habit with light green foliage. Stalks from 20 to 24 inches high, solid, pure white, heavy and crisp of extra fine quality and a good keeper. As an early celery by the use of boards it blanches in ten days to two weeks. As a late celery it can be kept to the holidays. There has been a number of strains of so-called easy blanching celery put upon the market. Having knowledge of this fact, we concluded not to list this variety until we had secured a strain that could be recommended to our customers. We are now offering what is known as the Garrahan strain. The grower advises us that last year the Grand Rapids Growers' Association, of Grand Rapids, Michigan, ordered 20 pounds as a trial order and that this year they have placed their order for 200 pounds. Pkt., 10c; oz., \$1.00; 2 oz., \$1.75; ¼ lb., \$3.25; ½ lb., \$6.00; 1 lb., \$11.00.



Late

CELERIAC OR TURNIP-ROOTED — Grown exclusively for its roots, which are turnip-shaped, very smooth, tender and marrow-like. The roots are cooked and sliced; used with vinegar they make an excellent salad.

Pkt., 5c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00; ½ lb., \$1.75; 1 lb., \$3.25.

CHICORY—Witloof or French Endive: This variety produces leaves with wide ribs or leaf stalks which form a cluster or head. Its main use is as a winter salad, the head being divided and served with French dressing. The heads are often boiled and later stewed in butter, milk and cracker crumbs. The flavor, which is slightly bitter, is the distinguishing characteristic that appeals to the epicure. Pkt., 10c; oz., 30c; 2 oz., 50c; ¼ lb., 90c; ½ lb., \$1.60; 1 lb., \$3.00.

Corn—Sweet

CULTURE—Sweet corn should not be planted deeper than one inch to one and a half inches, as it is liable to rot in the ground, especially if the ground has not become warm. Hoe often, drawing the earth against the stems and break off the side shoots.

First Early



White Cory, Early Minnesota, Golden Bantam, Howling Mob and Peep O'Day. Lb., 30c postpaid; at purchaser's expense; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$4.50; 50 lbs., \$7.50; 100 lbs., \$13.00.

WHITE CORY

EXTRA EARLY—One of the earliest varieties well and favorably known in all parts of the country. It succeeds well where the seasons are short, and can be recommended for general planting. Ears six inches long, with eight rows of broad grains.

EARLY MINNESOTA

—This deservedly popular variety is one of the best second early sorts for the market and the home garden. The stalks are about six feet high, bearing one or two ears well covered with husks. The ears are about inches long, eight rowed; kernels very broad white, sweet and tender, not shrinking much in drying. By careful selection we have developed a stock of this standard variety, which is remarkably uniform and in which all the good qualities that have made this sort so desirable are intensified.

Early Minnesota

CORN, SWEET—Continued

GOLDEN BANTAM — Of extreme hardness, this can be planted earlier than any other sweet corn, and will then produce the earliest supply of ears for the table. The stalks grow from three and one-half to four feet in height and produce one or two good ears on each stalk. The ears are about six inches in length, completely filled with eight rows of golden-yellow grains, extending to the rounded tip.

The flavor is deliciously distinct, exceptionally rich and sugary, the sweetest of all, superior to that of any other corn. Of all varieties the name "Sugar Corn" seems to fit this best, as it is so unusually sweet. The decided preference shown for it in market, restaurant and home has enabled many growers to sell Golden Bantam at a premium.

HOWLING MOB—This variety has become very popular on account of its earliness, and its possessing the sweet flavor of the later varieties. The stalks are of strong, vigorous growth, four and one-half to five feet in height, have abundant foliage and generally produce two fine ears to each stalk. The ears measure seven to nine inches in length, with twelve or fourteen rows of good-sized pearly-white grains. They are covered with a heavy husk which extends well out from the tip of the ears and affords good protection from the green worms which are so often destructive to early varieties.

PEEP O' DAY — For earliness, flavor, sweetness and productiveness it is ahead of any other early white sweet corn. It will prove a money-maker for the market gardener, and a valuable addition to our list of corn for our short western summers.

White Cory, Early Minnesota, Golden Bantam, Howling Mob and Peep O'Day: 1 lb., 30c; postpaid, at purchaser's expense; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$4.50; 50 lbs., \$7.50; 100 lbs., \$13.00.

Medium Early

COUNTRY GENTLEMAN—A favorite second early or main-crop variety with all private gardeners for its tenderness, delicacy, small, deep grains and sweetness. The ears are of fair size, frequently three or four to the stalk.

EARLY EVERGREEN — This fine variety yields large, handsome, ten and twelve rowed ears, averaging about nine inches in length. It is very sweet, has a fine flavor and remains tender a remarkably long time. Both varieties of medium early. 1 lb., 30c, postpaid; at purchaser's expense; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$4.50; 50 lbs., \$7.50; 100 lbs., \$13.00.

Late

STOWELL'S EVERGREEN — The standard main crop variety, much used for the home garden, market and canning. It is hardy and productive, very tender and sugary, remaining a long time in condition suitable for boiling. This corn is distinguished by the large ear, the long, deep kernels, its rich, sugary flavor and its long keeping qualities. The ears are about seven to eight inches long, fourteen to twenty rowed, with very white grain. The stalks are about seven and one-half feet high. The best known and most largely planted of all the late varieties.

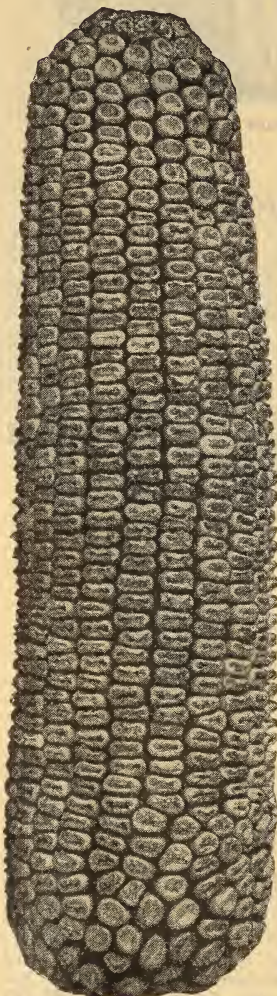
1 lb., 30c, postpaid; at purchaser's expense, 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$4.50; 50 lbs., \$7.50; 100 lbs., \$13.00.

Corn—Field

Corn growing is becoming more and more a staple product in the Northwest and experiments have shown that on carefully prepared fertile soil the difference in seed has made a difference in the yield of double the bushels per acre. Quotations on field corn not guaranteed, and is subject to change.

All varieties of field corn: Lb., 25c, postpaid; at customer's expense, lb., 20c; 5 lbs., 75c; 10 lbs., \$1.25; 25 lbs., \$2.50; 50 lbs., \$4.00; 100 lbs., \$6.50; 500 lbs., \$30.00; 1000 lbs., \$55.00.

Dent, Yellow



Yellow Dent.

MINNESOTA KING

—We regard this corn in some respects as the most valuable early corn for the Inland Empire. It seems to possess a faculty of growing right along and making a crop during weather and under conditions that would ruin other varieties. In appearance the Minnesota King is remarkably distinct, being a half yellow dent; the kernels are very broad and are a rich golden color.

PRIDE OF THE NORTH

— This is a standard early variety of corn in the East, but is not sure to mature here. From the fact that it produces a large amount of fodder and being early enough to get in proper condition for ensilage, it has taken the lead over all other corns for this purpose.

MINNESOTA No. 13—The commanding points of excellence which place Minnesota No. 13 Corn at the head of all yellow dent varieties for Northwestern planting are: Its earliness, its enormous productiveness, its adaptability to a great variety of soils and climates. The ears are of handsome appearance, bearing 16 to 20 rows of bright, rich yellow, smooth, wedge-shaped kernels packed closely on the cob from butt to tip. The ears average eight inches in length and are borne usually two on a stalk. No

corn excels in quality the Minnesota No. 13; the cobs are well filled and the individual kernels plump and of good color. The stalks grow to a height of seven feet and being leafy make excellent and very nutritious fodder. A variety of corn which shows such valuable characteristics is an acquisition on any farm, especially for planting in the Northwest where early frosts are common.

Dent, White

WISCONSIN EARLY—The stalks grow to an average height of 8 feet and are thickly furnished with foliage close to the ground. The ears are large, with 16 to 20 rows of large, deep kernels, which are closely set on a small white cob.

SILVER KING NO. 7.—This variety has given almost universal satisfaction to dairy men that wanted a reliable corn for silo purposes.

It is an early variety, therefore is valuable if the dairyman or farmer wants matured ears.

It is medium size, deep grained and a heavy yielder.

All varieties of field corn: Lb., 25c, postpaid; at customer's expense: Lb., 20c; 5 lbs., 75c; 10 lbs., \$1.25; 25 lbs., \$2.50; 50 lbs., \$4.00; 100 lbs., \$6.50; 500 lbs., \$30.00; 1000 lbs., \$55.00.

Please note that the prices made on field corn are estimates only and may be changed. If wanting quantity, please write stating variety and quantity wanted, otherwise full value will be forwarded for the full amount of money received.

Pop

WHITE RICE—The best corn for popping and for the general market; early, white pointed kernels. 1 lb., 25c, postage paid. At purchaser's expense, 10 lbs., \$1.50.

CRESS

PEPPER GRASS (Curled)—The leaves, when young, have a warm, pungent taste, and are used as a salad, either alone or mixed with other salad plants. As they are milder and more tender when young, the seed should be sown at intervals of 10 to 15 days, making the first sowing as soon as the ground can be prepared. Pkt., 5c; 1 oz., 20c; 2 oz., 30c; ¼ lb., 50c.

WATER—A delicate, pungent salad plant, very agreeable alone or mixed with other salads. Entirely distinct from common cress, thriving only where its roots are submerged. Sow the seed thinly along the banks of any shallow stream early in the spring. Pkt., 10c; oz., 40c; 2 oz., 75c; ¼ lb., \$1.25; ½ lb., \$2.25; 1 lb., \$4.00.

Cucumbers

This is one of the vegetables that can be grown to perfection by any one who can control a few square yards of reasonably good soil that is fully exposed to the sun. Every family should be supplied from its own garden, since the fruit is so much better when gathered fresh from the vines as desired for use than it is in the more or less wilted condition in which it is found on the market.

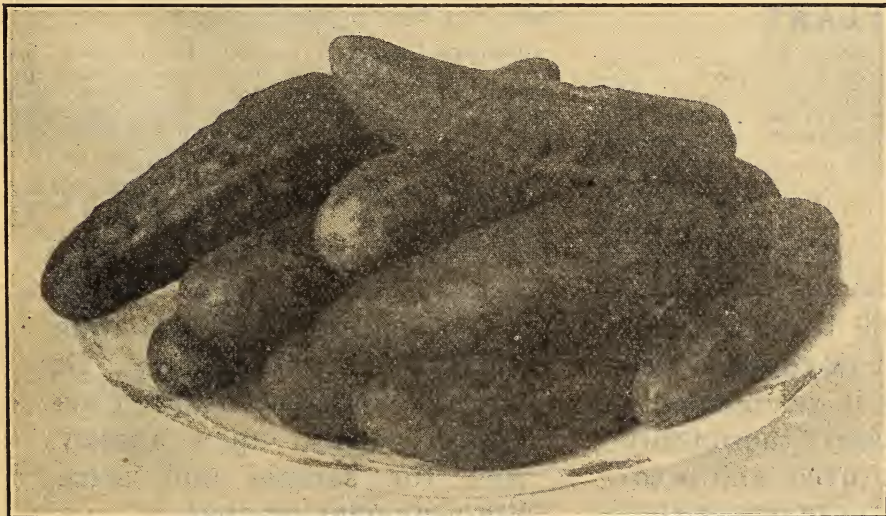
CULTURE—Plant in hills about four feet apart each way; thin out to four of the strongest plants in each hill; they succeed best in warm, moist, rich, loamy soil. The cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.

All varieties of cucumbers, unless otherwise quoted: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 85c; 1 lb., \$1.50, postpaid; at purchaser's expense, 5 lbs., \$6.50; 10 lbs., \$12.00.

BOSTON PICKLING—This is a very productive variety that is extensively grown for pickles. The vines are vigorous. The fruits are bright green, of medium size, very smooth and symmetrical. The flesh is crisp and tender.

DAVIS PERFECT—This cucumber has an ideal shape and a beautiful dark green color. Its eating qualities are unsurpassed, both because of its fine flavor and its small number of seeds. On account of its fine flavor, small number of seeds, and its great productiveness, it is a general favorite and is highly recommended. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.75, postpaid; at purchaser's expense, 5 lbs., \$7.75; 10 lbs., \$14.00.

EARLY CLUSTER—A short, prickly variety; usually growing in clusters. Is a prolific bearer, and one of the earliest; flavor excellent.



Beautify
your home
by growing
flowers,
and do not
overlook
Bulbs,
Cannas,
Dahlias,
Gladioli,
Lily of the
Valley,
and
Paeonies.

Boston Pickling

CUCUMBERS—Continued

EVERBEARING—This is not only a very early variety but is also extremely prolific. If the fruit is kept gathered, vines will continue in bearing throughout the season. The fruit is of medium size and rich dark green color, average from four to five inches in length by an inch and a half in diameter. Owing to its great productiveness. It is an excellent variety to plant for producing small pickles.

GHERKIN, WEST INDIA—This variety is used exclusively for pickling, a distinct species from the common cucumber. It is a vigorous grower and consequently should be planted 6 feet apart. The fruit is very small, almost round and closely covered with spines.

IMPROVED LONG GREEN—The Vines are very vigorous and productive. The fruit is very long, growing frequently from 12 to 15 inches, and are uniformly slender and of a beautiful dark green color. The large warts and spines are well distributed over the surface instead of being clustered at one end as in inferior stocks. This variety furnishes some fruit early but matures the bulk of its crop rather late. It is a standard sort for slicing and is very largely used for pickles. This is probably the most extensively used cucumber for the home garden and market. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.75; at purchaser's expense, 5 lbs., \$7.75; 10 lbs., \$14.00.

IMPROVED WHITE SPINE—One of the best sorts for trade use, fruiting early and abundantly; fruit uniformly straight and handsome; light green, with a few white spines. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.75, postpaid; at purchaser's expense, 5 lbs., \$7.75; 10 lbs., \$14.00.

JAPANESE CLIMBING—A sort of pole cucumber, its name being due to its tendency to climb and bear its fruit up from the ground, if afforded support; fruit large and thick.

SHORT GREEN, OR EARLY FRAME—A vigorous and productive variety producing fruit of medium size and regular form; flesh crisp and tender; excellent for the table or pickling.

All varieties of cucumbers, unless otherwise quoted: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50, postpaid; at purchaser's expense, 5 lbs., \$6.50; 10 lbs., \$12.00.

EGG PLANT

CULTURE—Sow in hotbeds very early in the spring; transplant to 2 or 3 feet apart in very rich, warm ground. Do not plant them outside till nights have become warm, as the least frost or cold nights will greatly retard their growth.

BLACK BEAUTY—This beautiful egg plant is 10 days earlier than the New York Improved. The fruit is broad and thick, of most attractive form, and does not fade or change to a lighter color at the blossom end. The fruits set freely.

and are ready for market early, so the crop can be gathered before danger of frost. Pkt., 10c; oz., 60c; 2 oz., \$1.10; ¼ lb., \$2.00; ½ lb., \$3.50; lb., \$6.00.

**Improved New York**

NEW YORK IMPROVED—This is a standard variety, both for market and home garden; a favorite everywhere. Pkt., 10c; oz., 60c; 2 oz., \$1.10; ¼ lb., \$2.00; ½ lb., \$3.50; lb., \$6.00.

ENDIVE

This is one of the most refreshing and attractive of all autumn and winter salads. It is most appetizing when served mixed with lettuce, with French dressing. Sow seed from middle of June to last of August.

BROAD LEAVED BATAVIAN—Leaves are broad, thick, green, more or less twisted and waved with white mid-ribs. It forms large hearts, which when blanched form one of the best winter salads. Crisp, tender and fine flavor.

LARGE GREEN CURLED—A fine market sort; tender, green leaves; blanch white; hardy. Both varieties of Endive. Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 85c; lb., \$1.60.

See page 106 for price and description of Ryde's Chick Starter. This is scientifically made, has been thoroughly tested and approved, and is today without a peer or equal.

Our field seeds are tested for purity and germination. Do not buy seeds because they are cheap. Insist upon quality. Ask for sample and price. State amount wanted.

GARLIC

Has a bulbous root, with a strong, penetrating odor and flavor. Belongs to the onion family and cultivated much in the same manner. We cannot offer seed, but can supply the bulbs or sets.

This is extensively used in many places for flavoring soups, stews, etc. The sets should be planted early in spring and treated like onions. 1 lb., 50c.

KALE OR BORECOLE

Kale, or Borecole, is a kind of cabbage that does not form a close and solid head, but a cluster of beautifully curled or wrinkled leaves that are tender and of excellent flavor. It requires the same treatment as cabbage, and is very hardy, being improved by frost.



Kale

DWARF GREEN CURLED SCOTCH—Plant low and compact, with large, bright, deep green leaves, curled, cut and crimped until the whole plant resembles a bunch of moss.

TALL GREEN CURLED SCOTCH—Produces an abundance of dark green, curled leaves. Very hardy.

Both varieties of Kale: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.75.

THOUSAND HEADED—The great demand for this wonderful forage plant proves it to be the most valuable green feed for dairy and stock men. Endorsed by agricultural colleges and government stations. Pkt., 5c; oz., 10c; 2 oz., 20c; ¼ lb., 30c; ½ lb., 50c; 1 lb., 90c.

KOHL-RABI



The Kohl-Rabi is a vegetable intermediate between the cabbage and turnip, and combines the flavor of each. The edible part is a turnip-shaped bulb. When used for the table this should be cut when quite small, as it is then very tender and delicate, but if allowed to reach its full size it becomes tough and stringy.

EARLY PURPLE—A very desirable sort for forcing or early outdoor planting. Bulbs are of medium size, purple, flesh white. Very early, with small top, the leaf stems being tinged with purple.

EARLY WHITE VIENNA—Is the earliest and best for forcing; is very tender, excellent for table use.

Both varieties of Kohl-Rabi: Pkt., 5c; oz., 30c; 2 oz., 50c; ¼ lb., 90c; ½ lb., \$1.50; 1 lb., \$2.75.

LEEK



London Leek

LARGE LONDON, OR SCOTCH FLAG—This leek is generally considered more delicate than the onion for soup, etc. Sow in seedbed middle of spring; when the plants are three or four inches high, transplant them into rows wide enough apart to admit the hoe between them. Pkt., 5c; oz., 30c; 2 oz., 50c; ¼ lb., 90c; ½ lb., \$1.50; 1 lb., \$2.50.

Lettuce

Lettuce to be at its best should be grown rapidly, hence the soil should be made as rich as possible by liberal manuring and thorough preparation.

CULTURE—Sow every month as soon as the ground is open, in drills one foot apart, covering the seeds about one-quarter of an inch deep and thinning out to 6 or 8 inches in the row. For a cut salad sow thicker and do not thin out. Does best in rich, moist soil.

Early and Forcing

BIG BOSTON (Seed White)—This market variety is very popular for outdoor culture and is also in demand as a compact, large heading, forcing sort for cold-frames. The plants are large, very hardy and vigorous. The leaves are broad, comparatively smooth but wavy at the edge, thin, very hard and crisp. In color they are bright light green, the head slightly tinged

LETTUCE—Continued



Big Boston

with reddish brown. The inner leaves blanch to an attractive greenish white, tinged with light yellow. It heads up under cold weather conditions better than any other variety.



Grand Rapids

GRAND RAPIDS (Seed Black)—As a lettuce for greenhouse forcing this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot and standing for some days after being ready to cut. This plant is upright and forms a loose head or cluster of large, bright leaves, slightly crimped and blistered and rather thin.

Big Boston and Grand Rapids: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50.

LOOSEHEAD OR CUTTING

PRIZEHEAD—Large, loose-headed sort. The leaves are tinged with brown, very heavy.

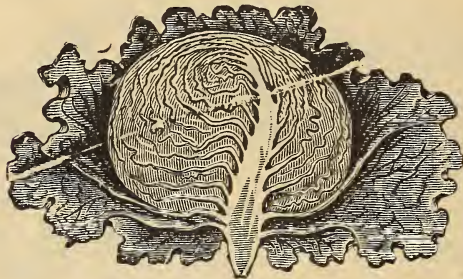
CURLED SIMPSON OR SILESIA—One of the best curled varieties for early sowing out of doors. Very popular with market gardeners and private planters.

Prizehead and Simpson's. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50.

Heading

CREAM BUTTER, HANSON AND ICEBERG—Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50.

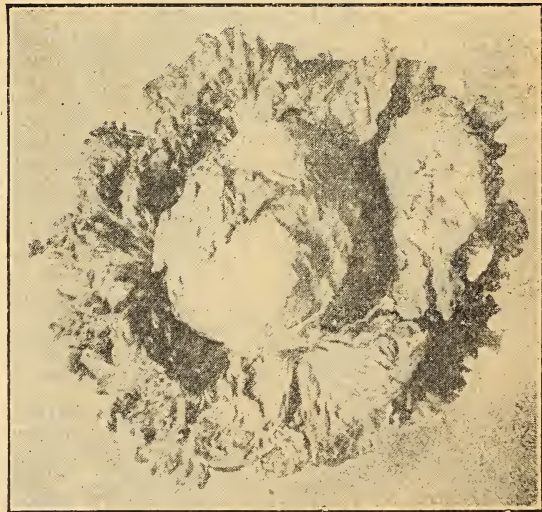
CALIFORNIA CREAM BUTTER OR ROYAL SUMMER CABBAGE—A very reliable heading sort, with glossy, deep green leaves, the outer ones slightly spotted or splashed with brown. The inner leaves form a large, very solid head, rich light yellow in color, very thick and tender and buttery.



Hanson

HANSON—One of the most desirable later summer lettuces. The plant is compact and forms a large, cabbage-like head which remains in condition longer than most heading sorts. The outer leaves are bright yellowish green, broad, somewhat crumpled and frilled at edge and with distinctive midrib. The inner leaves are white, very crisp and sweet. This thin-leaved, curly, tight-heading sort is very extensively used for the kitchen garden as well as market.

ICEBERG—Has an unusually solid head. The white main ribs of the leaves curve toward the center, which keeps the interior thoroughly blanched. It is a quick grower and always crisp and tender. Cream Butter, Hanson and Iceberg: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50.



New York

NEW YORK OR WONDERFUL—The mammoth heads are solid, heavy, beautifully blanch-ed to a creamy white with bright green outer leaves. The quality is unsurpassed, being tender, crisp and sweet. The New York is a hardy, rapid grower, deep rooted and resistant to drought; a slow seeder and sure to head: Pkt., 10c; oz., 30c; 2 oz., 60c; ¼ lb., \$1.00; ½ lb., \$1.75; 1 lb., \$3.00.

Cos

PARIS WHITE COS—The Cos Lettuce differs entirely in shape from other varieties, the head being elongated and of conical form, eight or nine inches in height and five or six inches in diameter. The outer coloring of this variety is yellowish green.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 90c; 1 lb., \$1.60.

MUSHROOM SPAWN

With intelligent care and good spawn, mushrooms can be made to pay handsomely. They can be successfully grown in a dry cellar or under the benches of a greenhouse, where the temperature can be kept from 50 to 60 degrees.



LAMBERT'S PURE CULTURE—A new kind of spawn, without doubt the best. It comes in bricks, weighing about 20 ounces. These are broken up into pieces the size of a walnut and put into the bed one foot apart each way. Brick, 45c, postpaid; at purchaser's expense: Brick, 35c; 5 bricks, \$1.50.

Illustrated book on Mushroom Culture, containing the latest methods of raising, preserving and cooking mushrooms. 15c, postpaid.

Muskmelons

There is not anything more refreshing than a fine flavored muck melon or canteloupe. It may seem strange to some that the selection of the seed should have anything to do with this flavor. There is a flavor peculiar to each distinct variety, and this can only be obtained when the varieties are kept up to their well-known standard, and this can only be done by a careful selection of the melons from which the seed is saved. Our growers have always this thought in mind, hence the seed furnished us by our careful and intelligent growers will give best results on account of its careful selection.

CULTURE—The seed should not be planted until the soil has become thoroughly warmed, about corn-planting time. Plant five or six seeds to the hill, in hills four to six feet apart. Rich soil or well-rotted manure should be used in the hills.

Green-Fleshed Varieties

All varieties of green fleshed muskmelons not otherwise quoted: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50; at purchaser's expense, 1 lb., \$1.40; 5 lbs., \$6.25; 10 lbs., \$11.00.

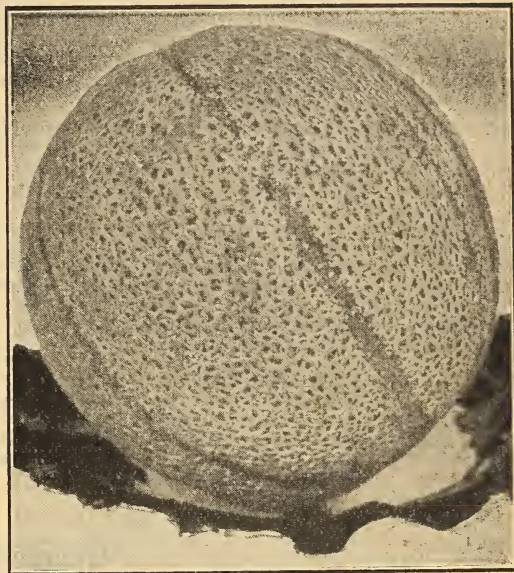
CANTELOUPE, LARGE YELLOW—The fruit is large, oblong, slightly ribbed and coarsely netted. The flesh is light yellowish-green, very sweet, crisp and delicious.

CASSABA—Large oblong melon, well ribbed thin skin, green flesh; prolific and of delicious quality; late maturing; good keeper. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.25; 1 lb., \$.200.

HACKENSACK EXTRA EARLY IMPROVED—A selection from and an improvement on the old Hackensack, and similar in shape and appearance; nearly as large and fully 10 days earlier; one of the finest for market gardeners; quality perfect.

NUTMEG, EARLY PROLIFIC—Fruit of medium size, slightly ribbed, globular. Skin dark green, becoming yellow when overripe, and nearly covered with broad, shallow netting.

ROCKY FORD OR NETTED GEM—Has attained in an incredibly short time a national reputation. It is of the Netted Gem type, oval in shape, averaging from four and one-half to five inches in length, of a delicious flavor, very fine and smooth grained flesh, of a light green color throughout.



Rockyford

This melon has proved to be very profitable, hence popular on account of its superior quality and its ready sale on the market.

All varieties of green fleshed muskmelons not otherwise quoted: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50; at purchaser's expense, 1 lb., \$1.40; 5 lbs., \$6.25; 10 lbs., \$11.00.

Salmon-Fleshed Varieties



Burrell Gem

MUSKMELONS—Continued

Burrell's Gem, Emerald Gem, Hoodoo, Osage and Paul Rose: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50; at purchaser's expense, 1 lb., \$1.40; 5 lbs., \$6.25; 10 lbs., \$11.00.

BURRELL GEM—Burrell's Gem has a tough thin rind, well arched ribs, covered with a closely interlaced gray netting; shape elongated, being about 4½ inches in diameter by 6 inches long, flesh of a reddish orange, very thick, fine grained and spicy, seed held firmly in a triangular cavity. This is the secret of a good shipping melon. If the seeds shake loose easily a melon will quickly decay.

EMERALD GEM—This is a variety of excellent quality and of medium size. The skin, white-ribbed, is perfectly smooth and of a deep emerald green color. The flesh is thick and of a deep salmon color, and ripens to the green rind. The flavor is very sweet and luscious. The vines are hardy and very prolific, and the melons mature extremely early.

HOODOO—Sometimes sold as Ordway Queen. This is an orange fleshed variety of medium size, ideal as a shipping melon and a desirable mid-season sort for the home garden. The vines are vigorous, blight-resisting and very productive. The fruits are uniformly of medium size. The netting is exceptionally fine and dense, extending over practically the entire surface. The rind is thin, yet very firm, so that the melons arrive in perfect condition in distant markets. The flesh is very thick, firm, highly flavored, of fine texture and delicious flavor.

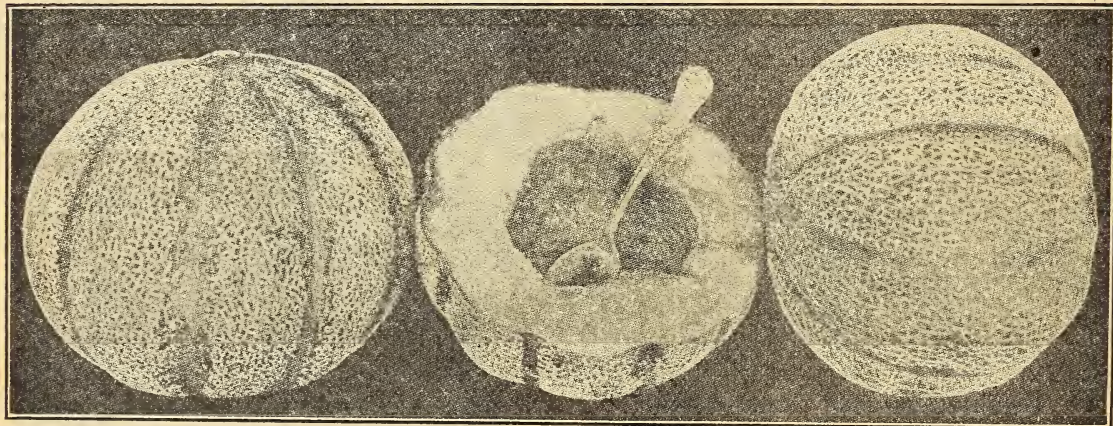
OSAGE OR MILLER'S CREAM—The skin is very thin, of a dark green color and slightly jettied. The flesh is of a salmon color, remarkably sweet, extremely thick, and delicious to the rind. It is also very productive. It is a remarkable keeper, and will stand shipping.

PAUL ROSE OR PETOSKEY—A successful cross between the Osage and Netted Gem. It combines the sweetness of the former with the fine netting of the Gem, and is even a better shipper than that variety. The melons grow uniform in shape and size. The flesh is remarkably thick, making the melons very solid and heavy, and of a beautiful salmon or orange color; delicately sweet and melting.

POLLOCK 10-25—Is a re-selection of the Pollocks Netted Gem or Pollock's No. 25. It is not an untried variety but one that has proved its merit which distinguishes it as the most popular melon with growers everywhere. It has superceded No. 25 by reason of its long distance shipping qualities. An early melon of the solid netted type, very small seed cavity with thick luscious flesh of genuine salmon tint shading to green near the rind. A prolific yield-er and is admittedly the finest salmon-fleshed melon ever introduced. Pkt., 10c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.25; 1 lb., \$2.00; at purchaser's expense, 1 lb., \$1.90.

Burrell's Gem, Emerald Gem, Hoodoo, Osage and Paul Rose: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50; at purchaser's expense, 1 lb., \$1.40; 5 lbs., \$6.25; 10 lbs., \$11.00.

GARDEN LEMON—The fruit is short, nearly round with yellow and green markings; skin smooth, flesh very tender and of sweet flavor. Best when turning yellow. Specially recommended for preserves. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c.

Greeley's Wonder

It has been said that there is no such thing as standing still and that if we are not advancing, we are retrograding.

We are not attracted or captivated by any new introduction, simply because it is new and is introduced by high sounding names. On the contrary we expect every new introduction to stand the test, and when so tested and tried to stand upon its own merits.

We are always on the look-out for improved varieties of vegetable seeds.

Colorado is recognized as producing very fine musk melons, in size, yield and flavor, and Greeley is at once thought of as being the very centre of the big melon patch.

For the past eight years they have been growing a musk melon there, that is now known as



Field of Greeleys Wonder

GREELEYS WONDER

This name has been applied to this melon because of its large size, early maturing, rich coloring and superior flavor.

Under average conditions it weighs from 4 to 6 pounds while about 10 per cent will run from 7 to 9 lbs. It ripens from one to two weeks earlier than the Rockyford, which means extra profit for the grower. It has a rich golden color, very thick meat and its flavor far surpasses any other melon on the market at the present time.

It is not a very prolific bearer and is specially recommended for local consumption or for short distance shipment, as it is not as good a shipper as some other varieties. Well worth a trial in this section. Pkt., 10c; oz., 30c; 2 oz., 50c; ¼ lb., 90c; ½ lb., \$1.50; 1 lb., \$2.75.

HONEY DEW

It is as sweet as honey and has the mingling of several flowers—pineapple, banana and vanilla predominating.

The average size of the melon is six inches in diameter and seven to eight inches in length, weighs five to six pounds. The skin is smooth with an occasional net, is a creamy yellow when ripe. The flesh is an emerald green, very thick, melting, and very fine grained, can be eaten to the extreme rind. The seed cavity is very small, the rind impervious to water, the melon does not shrink in weight, is not easily bruised and is a splendid shipper.

It matures about ten days later than the Rocky Ford, is very prolific and will keep for several weeks if picked a short time before it is fully matured.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 70c; ½ lb., \$1.30; 1 lb., \$2.00.

Watermelons

Watermelon seed, like all other seeds, should be selected from true types and from melons that have attained a large growth and ripened early. This method will produce and preserve true strains, while the generally followed plan of saving seed from all melons in a field without reference to size, shape, or time of ripening, will cause types and quality to deteriorate. Our growers give a great deal of time, thought and care to the thorough selection of the seed furnished us. Under these conditions we are obliged to pay a higher price for the seeds we secure than we would for ordinary seed, but we are supplying our customers with a very much higher grade of seeds than is usually supplied by seed houses.

CULTURE—Watermelons thrive best on light, well drained soils, but give good results on any good rich garden soil that is properly drained and cultivated. Plant after the weather is settled and ground warm. Hills should be eight feet apart each way and with well rotted manure thoroughly worked into each hill.

All watermelons not otherwise quoted: Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 75c; 1 lb., \$1.25; at purchaser's expense, 1 lb., \$1.15; 5 lbs., \$5.00; 10 lbs., \$9.00.

CUBAN QUEEN—A very fine variety, growing to a great size; flesh bright red, solid and sweet. The skin is beautifully striped, dark and light green.

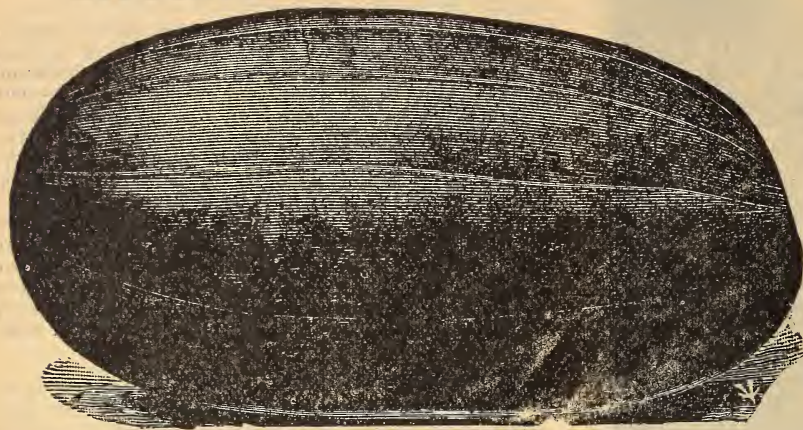
FLORIDA FAVORITE—Oblong in shape, and growing to a very large size; rind dark, with light green stripes; flesh light crimson, crisp and deliciously sweet.

FORDHOOK EARLY—An extra early watermelon of large size. The rind is tough, making it desirable for shipping purposes. Flesh is light red and is very sweet.

HALBERT HONEY—An exceedingly sweet and deliciously flavored melon, similar in size and shape to Kleckley's Sweet. It is of handsome, long, oval shape, averaging about 18 inches in length, and about six inches in diameter. The skin is an attractive, very dark green, the flesh is of a beautiful bright red, extending almost to the outer rind. The rind, too, is so thin and brittle that it cracks open very easily and will not stand hauling or shipping long distances.

ICE CREAM WATERMELON—This melon is of recent introduction and has many things to recommend it. While a little later in ripening than the ordinary melon, this is more than off-set by its extra fine keeping qualities, as with ordinary care it can be kept till Thanksgiving. This new Ice Cream Watermelon is small when compared in size to other watermelons and somewhat resembles in appearance the citron. Oval in shape, light in color, with a very faint stripe, seeds small and black, flesh bright red with a thin rind and solid meat and a flavor that far surpasses that of any other watermelon. It is crisp and delicious and without doubt will come up to the highest expectations of the watermelon loving public. Pkt., 10c; oz., 30c; 2 oz., 50c; ¼ lb., \$1.00; ½ lb., \$1.50; 1 lb., \$2.50.

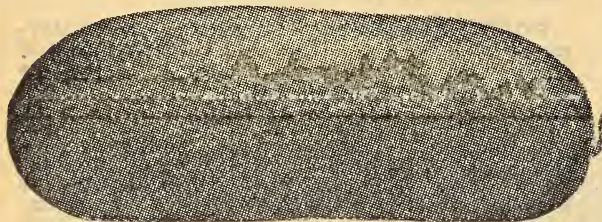
WATERMELON—Continued



Kleckley's Sweet

McIVER'S OR WONDERFUL SUGAR—Ob-long in shape; size uniformly large; handsome appearance; skin shows broad bands of white, shading into narrow bands of dark green; quality is superior, flesh is soft pale pink, crisp, free from any stringiness, and juicy. The melons have a solid heart, free from cracks, while the seed rows are close to the rim.

PEERLESS—One of the best melons in cultivation. Rind thin, light mottled green. Flesh bright scarlet; solid to the center, sweet as honey.



Tom Watson

TOM WATSON—A large, long melon similar in shape and color to the Kleckley's Sweet and possessing the same delicious flavor and quality, but averaging larger in size and with a tougher rind, making it especially adapted for shipping to distant markets. The vines are vigorous and productive. The flesh is rich red, sweet and tender. Seed white, more or less marked with brown. Wherever grown it has become very popular as a shipping sort. There has been an increasing demand of late for a better quality of shipping melon and this demand has been met in most exceptional degree by the Tom Watson.

All watermelons not otherwise quoted: Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 75c; 1 lb., \$1.25; at purchaser's expense, 1 lb., \$1.15; 5 lbs., \$5.00; 10 lbs., \$9.00.

CITRON — For preserving; grows uniformly round and smooth; striped and marbled with light green; flesh white and solid.

Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 85c; 1 lb., \$1.50.

KLECKLEY'S SWEET, OR MONTE CRISTO—

This is one of the best flavored melons in cultivation, and of a shape and color that is extremely desirable. The rind is very dark green, very thin; flesh deep scarlet fine, and of delicious quality. For the home market and family garden it is decidedly one of the best.

Attractive red color, crisp, sweet and delicious. The heart is large with no core. The appearance and quality of this melon make it desirable for both home and market use.

KOLB'S GEM—Is very large, slightly oval, striped, with light and dark green. Rind very hard and firm. Flesh bright red, solid, coarse grained, but tender and sweet.

MUSTARD

MUSTARD is used alone as "greens" or with cress as salad. Sow any time in the spring, in rows.



SOUTHERN GIANT CURLED—The leaves are large, light green with tinge of yellow, much crimped and frilled at edges. The plant is upright or slightly spreading in growth.

WHITE ENGLISH—The leaves are comparatively small and smooth, deeply cut or divided and of medium dark green color. The plant is upright, of rapid growth and soon bolts to seed. The leaves, when young, are mild and tender.

Both varieties of mustard: Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25.

OKRA OR GUMBO

The long, tender pods of Okra are very delicious when sliced and cooked in soups. While this is its chief use, it is also boiled and served like other vegetables. The dwarf sorts may be planted in hills or in rows about three feet apart. Plant in any good soil about May 15. The pods should be gathered when very young, as they are then very tender.

An early dwarf prolific variety with thick, green pods.

DWARF GREEN—Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25.

Onions

The Onion is one of the most extensively used of all vegetables. It not only contains considerable nutriment and has valuable medicinal properties, but is most useful in counteracting the bad effects of sedentary life.

It is readily seen that there is a great variety and diversity in the shape, color, size, and flavor of onions, also in their keeping qualities. The keeping is due in some respects to the different varieties, but the care bestowed upon the selection of the bulbs of the various varieties has much to do to improve their keeping qualities. The time and labor given to this special care and attention adds to the cost, but it is well worth the additional cost to the planter, as it insures better keepers, more uniform type; also a greater yield. Our bulbs and seeds receive the necessary care to insure better results.

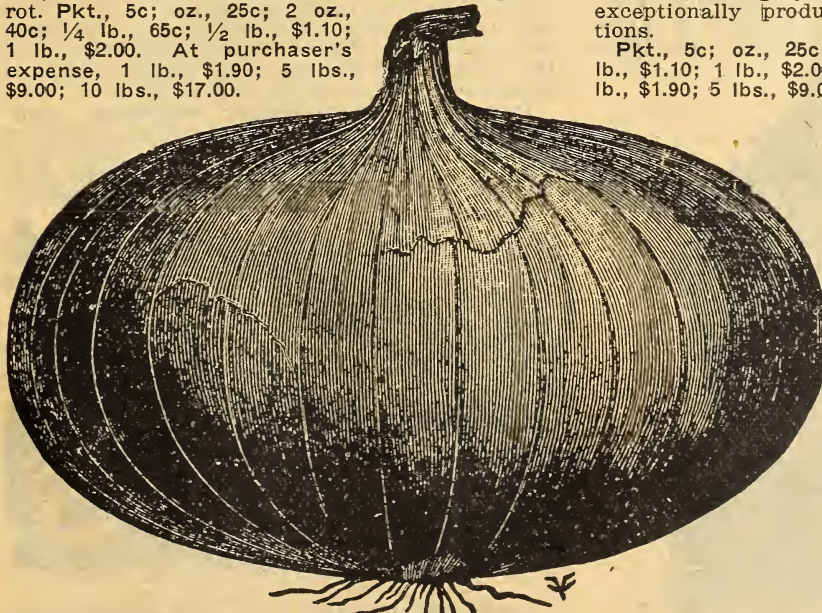
CULTURE—Onions do best on a rich loam, previously cultivated for two years. The land should be highly fertilized with well-rotted manure, or complete fertilizers. Culture should be frequent, though shallow. The same ground may be used for onions season after season, if well fertilized annually. Bone meal is an excellent fertilizer.

Brown

AUSTRALIAN—Of medium size. Wonderfully hard and solid, the bulbs are most attractive for market, both as to form and appearance. The color of the skin is a clear amber brown. Specially noted as a long keeper as it keeps well into spring and much longer than any other varieties. Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 85c; 1 lb., \$1.60; at purchaser's expense, 1 lb., \$1.50; 5 lbs., \$7.00; 10 lbs., \$13.00.

Red

LARGE RED WETHERSFIELD—This is the standard red variety and a great favorite. It is very extensively grown for home garden use as well as the market. The bulbs are large and are flattened yet quite thick. The skin is deep purplish red. The flesh is light purplish white, moderately fine grained, rather strong but of pleasant flavor. The variety is very productive, one of the best keepers and very popular for general cultivation. This medium early or main crop variety does best on rich, moderately dry soil, but on low muck land it is more apt to rot. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 65c; ½ lb., \$1.10; 1 lb., \$2.00. At purchaser's expense, 1 lb., \$1.90; 5 lbs., \$9.00; 10 lbs., \$17.00.

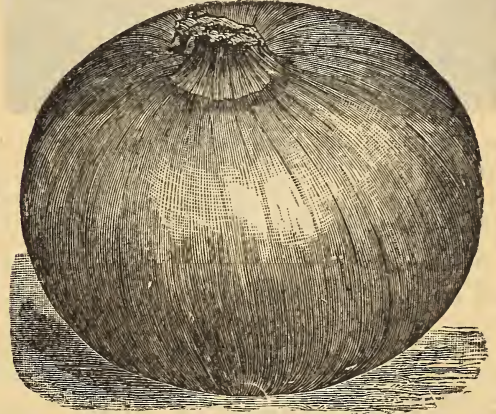


Red Wethersfield

Yellow

DANVERS—YELLOW FLAT—The leading large yellow kind, round, slightly flattened, flesh fine-grained, rather mild, very rich and sweet; one of the best keepers and shippers, and one of the most productive kinds. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.75; at purchaser's expense, 1 lb., \$1.65; 5 lbs., \$7.75; 10 lbs., \$14.50.

DANVERS—YELLOW GLOBE—This onion is the standard winter sort in many markets. The shape is almost globe form and the bulbs are quite large, with thin necks, ripening down well. The skin is a fine brown orange yellow, while the flesh is pure white, solid and of good quality. Its keeping qualities are of the best and its earliness makes it valuable for market. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 65c; ½ lb., \$1.10; 1 lb., \$2.00; at purchaser's expense, 1 lb., \$1.90; 5 lbs., \$9.00; 10 lbs., \$17.00.



Yellow Danvers

MAMMOTH PRIZETAKER—A very handsome late or main crop onion of the largest size and nearly globular in form, usually with shoulder and base slightly sloping. The skin is yellowish brown or light yellow with slight tinge of brown. The flesh is creamy white, very mild, tender and of excellent flavor. The variety keeps well if thoroughly ripened and is very desirable for shipping for fall and early winter use. It is one of the best of the large European sorts that has become thoroughly acclimated in America and is exceptionally productive under proper conditions.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 65c; ½ lb., \$1.10; 1 lb., \$2.00; at purchaser's expense, 1 lb., \$1.90; 5 lbs., \$9.00; 10 lbs., \$17.00.

Examine our list of Sweet Peas, as it is the largest and best selection ever offered by any seed house in the Inland Empire. See 1924 novelties. Miss Spokane is a wonder.

ONIONS—Continued **White****Silver Skin****PORTUGAL OR AMERICAN SILVERSKIN—**

One of the leading white sorts, beautiful shape and mild flavor. The bulbs are flat in shape and mature early. Handsome in appearance, with clear white skin as beautiful as glistening silver. The flesh is of mild delicious flavor. It is largely used for growing sets on account of its fine shape when small, and also for its good keeping qualities. It is also extensively used as a pickling onion, for which purpose it is well adapted. Pkt., 5c; oz., 30c; 2 oz., 55c; ¼ lb., \$1.00; ½ lb., \$1.75; 1 lb., \$3.00; at purchaser's expense, 1 lb., \$2.90; 5 lbs., \$13.50; 10 lbs., \$25.00.

SOUTHPORT GLOBE—The superior quality of this wonderful variety is famed the world over. Its mild, delicious flavor and exceptionally attractive appearance have won great prominence. It is a most beautiful onion, of superb eating quality. Handsome, white globe shaped, flesh fine and very white, rich and sweet. It is also one of the best keepers of the silver skinned varieties. A veritable ball of silver, with thin, delicate, pure white skin. It will average from 2 to 2½ inches in diameter, and produces large yields. As soon as harvested they should be stored away in a cool, dark shed to keep them from discoloring. Pkt., 5c; oz., 30c; 2 oz., 55c; ¼ lb., \$1.00; ½ lb., \$1.75; 1 lb., \$3.00; at purchaser's expense, 1 lb., \$2.90; 5 lbs., \$13.50; 10 lbs., \$25.00.



BOTTOM SETS—Are grown from seed that has been sown too thick to attain a large size. The small onions thus obtained are planted out, and are ready in a short time to pull as green onions for the table or bunched for the market.

YELLOW—Lb., 25c, postpaid; at purchaser's expense, 10 lbs., \$1.25. For large quantities, write for prices, stating quantity wanted.

PARSLEY

Very useful for flavoring soups, meats and for garnishing. The green leaves are used for flavoring.

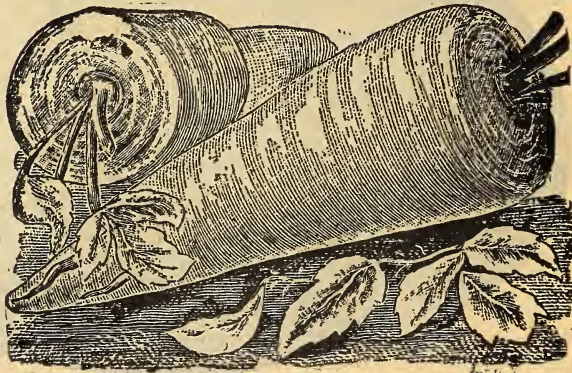
EXTRA DOUBLE CURLED—A compact grower, finely cut and much curled variety of bright green color. Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 90c; 1 lb., \$1.50.

Parsnips

The value of the Parsnip as a culinary vegetable is well known but is not generally appreciated at its full value for stock feeding. On favorable soil it yields an immense crop of roots, more nutritious than turnips and very valuable for dairy stock.

CULTURE—Parsnips do the best in rich, deep soil, but will make good roots on any soil which is deep and mellow and moderately rich. As the seed is sometimes slow to germinate, it should be sown as early as possible.

IMPROVED GUERNSEY (Improved Half-Long)—A greatly improved and wonderfully fine strain of Guernsey parsnip. It is a very heavy cropper. The roots are very smooth, the flesh is finely grained and of most excellent quality.



LONG SMOOTH OR HOLLOW CROWN (Abbott's Improved Long Sugar or Long White)

Dutch Parsnip)—A great cropper; tender, sugary and considered the best for general cultivation. Parsnips are improved by remaining exposed to the frost.

Both varieties of parsnips: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 85c; 1 lb., \$1.50; at purchaser's expense, 1 lb., \$1.40; 5 lbs., \$6.50; 10 lbs., \$12.00.

PEANUTS

The peanut thrives and produces best on a light, sandy, fertile soil with a good clay subsoil. It possesses a long tap-root which extends deep into the earth. Lb., 50c, postpaid.

Peas, Garden

Hand Picked

Our peas are grown in the Inland Empire under our own supervision and have been very carefully rogued by us, thus insuring peas of the very best possible type. They have been grown by men of experience and in the very choicest places of the Inland Empire.

Extra Early

ALASKA OR EARLIEST OF ALL—Earliest and best of all of the blue smooth varieties. A smooth, blue pea, which in evenness of growth of vine and early maturity of pods is unequaled by any other pea. Vines two to two and one-half feet high. A great favorite with our market gardeners for fall and early spring planting. Lb., 30c, postage paid; at purchaser's expense, lb., 25c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$8.50; 100 lbs., \$15.00.

AMERICAN WONDER—The earliest and best of the wrinkled sort. A great favorite for family use. Has stout, branching vines about 10 or 12 inches high, and covered with well-filled pods, containing sweet, tender and well-flavored peas.

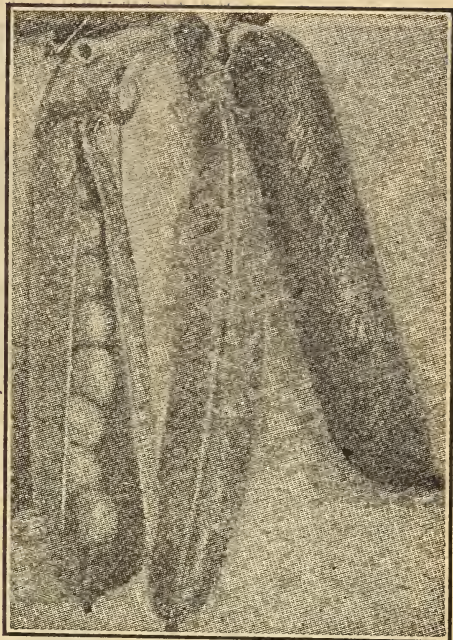
LITTLE GEM, McCLEAN'S—The vines grow about 18 inches in length, producing well-filled pods of from 2½ to 3 inches long. The peas are green, wrinkled, sweet and delicious.

American Wonder and Little Gem. Lb., 35c, postpaid; at purchaser's expense, 1 lb., 25c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$9.50; 100 lbs., \$18.00.

THE BLUE BANTAM is unequaled for combination of extreme earliness, superb quality, and unusual productiveness. The dwarf vigorous vines average fifteen inches in height and carry really enormous crops of large, deep bluish-green pods. The pods measure four to four and one-half inches long and are tightly packed with eight to ten large, deep bluish-green peas of most luscious flavor. Lb., 40c; postpaid; at purchaser's expense, 1 lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.50; 25 lbs., \$5.75; 50 lbs., \$11.00; 100 lbs., \$20.00.

Second Early

Gradus, Laxtonian, Telephone and Thomas Laxton: Lb., 40c, postpaid; at purchaser's expense, 1 lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.50; 25 lbs., \$5.75; 50 lbs., \$11.00; 100 lbs., \$20.00.



Gradus

GRADUS or PROSPERITY. This remarkable pea is not only large and of the best quality, but it is also nearly as early as the small, round, extra early sorts. It is hardy and may be planted as soon as the ground is fit to work in the spring. The vine grows to a height of about 30 inches. The pods are of a light green color and measure 4 inches or more in length, being as large as Telephone and equally as well-filled with luscious peas—8 to 10 in a pod. The peas are of first-class table quality and retain their color and attractive appearance after cooking.

LAXTONIAN. A new, early pea of fine size and exceptional quality. The vines are dwarf, growing from 15 to 20 inches, but the pods are from 4 to 4½ inches long, of bluish green color, and pointed at the end. Each pod contains from seven to ten peas of very large size and delicious flavor. The vines are vigorous, of fine dark green color.

TELEPHONE, DWARF—Produces handsome long pods. A great favorite with our market gardeners. Immensely productive, of the finest quality and excellent sugary flavor; vines very strong, growing from 18 to 24 inches high. The pods are of large size, filled with large, delicious peas.

THOMAS LAXTON—This is a very early wrinkled variety of great merit. The vines are vigorous, of medium height about three feet, similar to those of Gradus, but darker in color, hardier and more productive. The pods are large, often four inches long, with square ends, well filled. The green peas are very large, of fine deep color and unsurpassed in quality. One of the very best sorts for the market and home garden.

Gradus, Laxtonian, Telephone and Thomas Laxton: Lb., 40c, postpaid; at purchaser's expense, 1 lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.50; 25 lbs., \$5.75; 50 lbs., \$11.00; 100 lbs., \$20.00.

PEAS—Continued



Thomas Laxton

TALL VARIETIEES

TELEPHONE—The tall telephone still remains a great favorite and one of the leading varieties. The vines grow from 4 to 5 feet and are strong and vigorous, producing large pods of about four inches in length, of a deep green color and well filled with large peas of a most luscious flavor. Lb., 40c, post-paid; at purchaser's expense, 1 lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.50; 25 lbs., \$5.75; 50 lbs., \$11.00; 100 lbs., \$20.00.

See page 61 for Canadian, Green and Cow Peas.

Peppers

CULTURE—Sow the seed early in hotbeds, or later, when the weather becomes warm, in open beds; when two or three inches high, transplant to a warm, mellow soil, in rows 18 inches apart and one foot apart in the row.

CHINESE GIANT—An enormous fruiting variety, double the size of Ruby King, averaging 12 to 15 inches in circumference. Notwithstanding its large size, it is very early and very prolific. Plants are healthy, well branched, about two feet high and carry an enormous load of fruit, often having the appearance of being bunched together. Flesh is thick, tender, mild and sweet, and is unexcelled for salad or stuffed as mangoes. They can be sliced and eaten like tomatoes. When ripe the peppers are a rich, glossy scarlet, making them of unusually fine appearance. Pkt., 10c; oz., 80c; 2 oz., \$1.50; ¼ lb., \$2.50.



Chinese Giant

All varieties of peppers not otherwise quoted: Pkt., 10c; oz., 60c; 2 oz., \$1.00; ¼ lb., \$1.75.

LARGE BELL OR BULL NOSE—Sometimes called Sweet Mountain. The plants are vigorous, about two feet high, compact and very productive, ripening their crop uniformly and early. The fruits are large, growing from three to four inches in length, with thick, mild flesh of excellent quality for use in salads and mangoes, or stuffed peppers. The color is deep green when fruit is young, bright crimson when ripe.

LONG RED CAYENNE—Brilliant coral-red pods, three or four inches long, and a prolific bearer; very pungent and used very largely with pickles when green.

NEAPOLITAN—This pepper is not only early but is also a very heavy yielder. It matures about two weeks earlier than the Bull Nose, and is considered one of the largest peppers in cultivation.

RED CHILI—Small, bright red peppers, very hot and pungent, and generally used for making "pepper sauce;" very prolific.



RUBY KING—Very large and attractive. The plants are about two and one-half feet high, vigorous, compact and productive. The fruits

are often four to four and one-half inches long and of deep green color when young, bright red when ripe. The flesh is thick and mild flavored. One of the best varieties for mangoes or stuffed peppers.

All varieties of Peppers not otherwise quoted: Pkt., 10c; oz., 60c; 2 oz., \$1.00; ¼ lb., \$1.75.

Pumpkins

CULTURE—Sow in good soil, when the ground has become warm, in hills eight or ten feet apart each way, or in fields of corn about every fourth hill.



Connecticut Field

All pumpkins not otherwise quoted: Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; lb., \$1.25; at purchaser's expense, 1 lb., \$1.15; 5 lbs., \$5.00; 10 lbs., \$9.00.

CONNECTICUT FIELD—A productive, large, orange-colored field pumpkin, usually grown for stock feeding, but it makes good pies.

KENTUCKY FIELD OR LARGE CHEESE—Fruit flattened, the diameter being two or three times more than the length. Skin mottled light green and yellow, changing to rich cream color as it matures; flesh tender and of excellent quality.



Early Sugar

SUGAR—This variety is small, but of most excellent quality for pies. Fruits deep orange, eight to ten inches in diameter, round or somewhat flattened and slightly ribbed. Flesh rich deep yellow, fine grained and very sweet.

All pumpkins not otherwise quoted: Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; lb., \$1.25; at purchaser's expense, 1 lb., \$1.15; 5 lbs., \$5.00; 10 lbs., \$9.00.

MAMMOTH PRIZE—The largest pumpkin grown; has attained a weight of 235 pounds. If you wish to see just how large a pumpkin can grow, try the Mammoth Prize. The quality is excellent. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 85c; 1 lb., \$1.50; at purchaser's expense, 1 lb., \$1.40; 5 lbs., \$6.50; 10 lbs., \$12.00.

RADISHES

Is there any more appetizing vegetable than the radish? In the spring we welcome the early, so-called cherry-stone radishes, and during the summer and fall we all enjoy the delicious long and olive-shaped varieties. Radishes are delicious during the entire season if successive sowings are made. There is not a month from April to November that you need be without Radishes. If you have a hot-bed, they can be grown every month in the year.

CULTURE—For open ground culture sow in rich, sandy soil as soon in the spring as it is fit to work, in drills 12 to 18 inches apart and thin out the plants to prevent crowding. A good dressing of nitrate of soda will greatly stimulate growth and insure tender, brittle roots.

Turnip-Rooted, Early

CRIMSON GIANT—The largest early scarlet turnip-shaped radish. A very early radish, double the size of any of the other early turnip-shaped type, but notwithstanding its immense size, does not get hollow and pithy. The flesh is a sparkling white, solid, crisp and juicy, and of the mildest flavor. Excellent for both forcing and open ground.

SCARLET GLOBE—Similar in form to the Scarlet Turnip-Rooted, but much darker in color; flesh white, very crisp and tender, top small, well adapted for growing in frames.



Scarlet White Tipped

PUMPKINS—Continued

SCARLET, WHITE TIPPED—The favorite variety for outdoor cultivation; medium size, uniform shape; color bright scarlet, with white tip, which makes it most attractive. It grows quickly; flesh white, crisp and of the best quality.

The three foregoing varieties: Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25; at purchaser's expense, 1 lb., \$1.15; 5 lbs., \$5.00; 10 lbs., \$8.00.

Olive Shaped, Medium Early

FRENCH BREAKFAST, OR HALF-LONG WHITE TIPPED—Medium size, of quick growth, crisp and tender; terminates more abruptly than the Half-Long Scarlet, lower end of tap root white. Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25; at purchaser's expense, 1 lb., \$1.15; 5 lbs., \$5.00; 10 lbs., \$8.00.

Long, Late

Chartier, Icicle, Long Scarlet and Strasburg: Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25; at purchaser's expense, 1 lb., \$1.15; 5 lbs., \$5.00; 10 lbs., \$8.00.

CHARTIER, IMPROVED—Roots long, tapering rather abruptly and attaining a very large size. Of rapid growth, it is soon ready for the table, remaining crisp and tender until fully grown. Color, scarlet above, shading into white at the tip. Flesh white and mild flavored.

ICICLE, WHITE—The finest of the pure white varieties. They are long and slender and clear, pure white, making them very attractive when on sale and on the table. It is crisp and tender both when young and until it attains a large size, thus remaining in condition for use for considerable time. Roots grow four inches in length and half an inch in diameter; they retain their crispness and fresh mild flavor until fully six inches long and an inch in diameter.



White Icicle

LONG SCARLET, RED—The leading variety either for the family or market garden. From six to eight inches long, standing nearly half above the ground; bright scarlet, smooth, crisp, tender and mild.

STRASSBURG, WHITE—Of handsome, oblong, tapering shape, both skin and flesh being pure white. The flesh is firm, brittle and tender and retains its crispness even if old and large. Excellent for summer use. Very popular because it remains fit for use a long time and does not get pithy. Sometimes called the Sandwich radish.

Chartier, Icicle, Long Scarlet and Strasburg: Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25; at purchaser's expense, 1 lb., \$1.15; 5 lbs., \$5.00; 10 lbs., \$8.00.

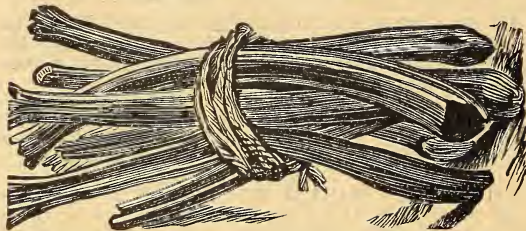
Winter

BLACK SPANISH, LONG—Very hardy and good for winter use. Will keep good all winter. The roots, which present a rusty, black appearance, are large, firm and not liable to become pithy.

CHINA ROSE—One of the best fall and winter varieties. Half-long shape; upper part bright crimson, shading to white. Flesh white, firm, tender and of superior quality.

CALIFORNIA MAMMOTH, OR WHITE CHINA—Very large and cylindrical, terminating abruptly with little tap-root; mild and tender, and keeps well all winter. The skin and flesh are of a transparent white.

All varieties of winter radishes: Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25; at purchaser's expense, 1 lb., \$1.15; 5 lbs., \$5.00; 10 lbs., \$8.00.

RHUBARB OR PIEPLANT

CULTURE—Sow in drills an inch deep, and thin out the plants to six inches apart. Transplant the young plants, setting them four to six feet apart each way. The stalks should not be plucked until the second year, and the plant never be allowed to exhaust itself by running to seed.

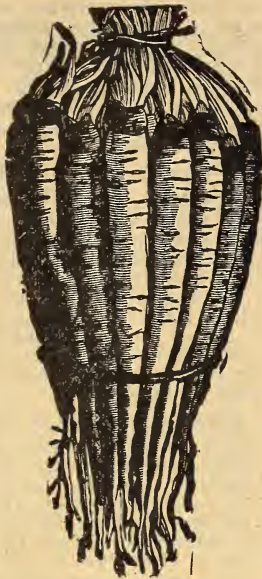
VICTORIA OR MAMMOTH—Very large; the finest cooking variety. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.75.

Nearly all seed houses are selling their packages at 10c. Most of ours are 5 cents, and in addition are specially selected for their adaptability for Northwest soil and climate. Ask your local dealer. If he can not furnish, order direct from us.

SALSIFY OR VEGETABLE OYSTER

CULTURE — Sow early and quite deep, giving the general culture recommended for parsnips. The roots are perfectly hardy, and may remain out all winter, but should be dug early in the spring, as they deteriorate rapidly after growth commences.

MAMMOTH SANDWICH ISLAND — Of superior quality. Pure white. Very meaty and of fine flavor. Grows uniformly large. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.25; lb., \$2.25.



SPINACH

CULTURE—It is one of the most easily managed of all vegetables, requiring but little culture. For spring and summer use sow broadcast or in drills as early as possible. Then sow at intervals for successive crops. For very early spring use it is sometimes sown in August or September, protecting it slightly during the winter.



LONG STANDING — An improved variety, slow going to seed, and perhaps the best for general use.

THICK LEAVED, IMPROVED—A variety which grows very rapidly, forming a cluster of large, very thick, slightly savoyed leaves of fine color and quality when cooked. Best for market gardeners.

Long Standing and Thick Leaf: Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 40c; lb., 65c; at purchaser's expense, 1 lb., 60c; 5 lbs., \$2.50; 10 lbs., \$4.00.

NEW ZEALAND—Unlike the common spinach in type in that it thrives during hot weather and in any soil, rich or poor. The tender shoots are of good quality and may be cut throughout the summer. The plant becomes very large and spreading. The leaves are comparatively small, broad and pointed. Plant three or four seeds in hills two feet apart each way. Germination of the seed can be hastened by soaking in warm water twenty-four hours. Pick the leaves from the stem, cooking these and you will have delicious greens all summer. It is tender and will not withstand frost. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.25; 1 lb., \$2.25.

Squash

CULTURE—Delay sowing until the soil has become warm. The general principles of culture are the same as those given for cucumbers and melons. The summer varieties should be planted four to six feet apart each way, and the winter sorts eight to ten. Three plants are sufficient to a hill.

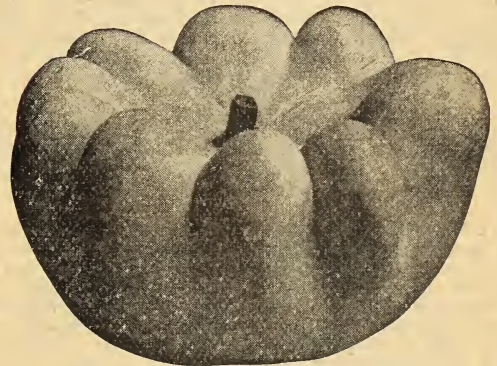
Crookneck and Bush Scallop: Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 70c; 1 lb., \$1.25.

Summer



Summer Crookneck

CROOKNECK, EARLY YELLOW—An early prolific kind having a solid curved neck; the skin is yellow, thin, hard and very warty, flesh tender and of good quality.



BUSH SCALLOP, EARLY WHITE—This is the well known, very early, somewhat flattened scalloped bush squash. The color is creamy white with comparatively smooth surface. The vines are vigorous and very productive. This variety is also known as Patty Pan or Cymling.

Crookneck and Bush Scallop: Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25.

Winter

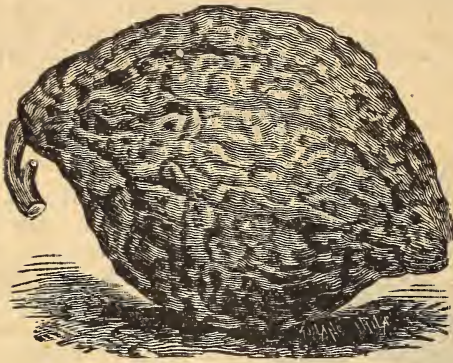
All varieties of winter squash not otherwise quoted: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 55c; ½ lb., 85c; 1 lb., \$1.50.

CHILI MAMMOTH—Attains an enormous size, often reaching a weight of 200 pounds, and not infrequently weighs 300 pounds. Despite its size, its flesh is rich and fine flavored. It is especially desirable for stock feeding and exhibition purposes. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; lb., \$1.75.

DELICIOUS—The increasing demand for this squash shows conclusively that its high quality is very generally known and appreciated. Many prefer it to Hubbard, so long regarded as the standard of excellence. Delicious is a fall and winter variety. Medium size. The fruit is

SQUASH—Continued

moderately hard, usually dark green, but sometimes lighter in color and mottled, and are without any hard shell. The flesh is thick, very fine grained and bright yellow in color. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.75.



HUBBARD, CHICAGO WARTY—One of the best of the winter squashes. The vines are vigorous and very productive. The fruit is large, heavy and warted, with a very hard shell. The skin is uniformly dark bronze green. The flesh is bright orange-yellow, fine grained, thick, dry and richly flavored. This squash can be kept in good condition until spring.

HUBBARD, SMOOTH—This is in all respects very much like the Warty Hubbard described above. It is of the same color and high quality, but is not warted and its shell is not quite as hard.

HUBBARD GOLDEN—The vines of this variety are vigorous and very productive. The fruit is of medium size, weighing from six to eight pounds and in shape is like the Hubbard, although in condition for use decidedly earlier. They are wonderfully long keepers and can be held over in good condition for spring use. The shell is moderately warted, hard, strong and of a beautiful orange-red color, except for a bit of olive-green on the blossom end. The flesh is deep orange, dry and richly flavored.

PIKE'S PEAK—Large oval, tapering at the blossom end. Skin dark olive-green; light golden flesh of excellent quality. Vines vigorous and very productive.

All varieties of winter squash not otherwise quoted: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 55c; ½ lb., 85c; 1 lb., \$1.50.

Tomatoes

CULTURE—Sow early in hotbeds and as soon as they have four leaves transplant into shallow boxes. Harden off and set out as soon as danger of frost is over.

To insure best results in respect to early ripening train up and trim the vines. When the plants have been properly started and are six to ten inches high they will begin to throw out branches. Select the largest and most vigorous of these and pinch off all others except this one and the main stem. Care must be exercised not to pinch off the fruiting branches which, as they appear, can be distinguished by the buds that are formed very early. In a short time these two remaining branches will become equally vigorous and

as ordinary varieties will grow four to six feet high during the season, they should be securely tied at intervals of about ten inches to a long stake. Fruit will set to almost any height desired if all side branches are kept trimmed off at intervals of a week.

All varieties of tomatoes not otherwise quoted: Pkt., 5c; oz., 40c; 2 oz., 70c; ¼ lb., \$1.20; ½ lb., \$2.00; 1 lb., \$3.50.

BONNIE BEST—A week later than Earliana, but with larger, smoother and sweeter fruits and also surpassing same in productiveness, as the vines bear continuously throughout the season. The fruits are very large handsome, very solid and deep through. Of bright scarlet color, ripen right up to the stem without any cracks or green core. Flesh thick, with comparatively few seeds and of sweet flavor. A good shipper. Bright red, smooth, medium sized, solid and very prolific.

CHALK'S EARLY JEWEL—The large, handsome fruits are very solid and deep through, being almost round or ball shaped. Color is brightest scarlet, ripening right up to the stem without any cracks. The foliage is rather sparse and open, admitting the sunlight to the center of each plant, so that all the fruit is thoroughly ripened.

DWARF CHAMPION, OR TREE TOMATO—The plant is dwarf and compact; fruit medium size, rich, glossy red, smooth and solid; fine for private gardens. Pkt., 5c; oz., 45c; 2 oz., 80c; ¼ lb., \$1.40; ½ lb., \$2.40; 1 lb., \$4.00.

EARLIANA, SPARKS'—The earliest large and smooth tomato. The most perfect of all tomatoes. Of large, uniform size and beautiful red color. Quality almost beyond praise. A most vigorous grower and heavy bearer, continuing until frost. Sparks' Earliana is as near seedless as any tomato, giving but 12 to 15 pounds of seed to the acre, while other varieties yield from 75 to 100 pounds to the acre.



Earliana

JOHN BAER—An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra early sorts and are most attractive in color. They are nearly round, smooth, firm and of excellent quality. It is one of the very earliest to ripen and it continues to furnish marketable fruits much longer than other very early varieties. Pkt., 5c; oz., 45c; 2 oz., 80c; ¼ lb., \$1.40; ½ lb., \$2.40; 1 lb., \$4.00.

MOORE'S EARLY—This variety is of late introduction and is claimed by the originator to be earlier than Earliana; it is said to be the earliest tomato grown. Medium size with a sparse vine, and sets its fruit very early. Pkt., 5c; oz., 45c; 2 oz., 80c; ¼ lb., \$1.40; ½ lb., \$2.40; 1 lb., \$4.00.

STONE—Fine for main crop; very large; color bright scarlet; very smooth, ripening up to the stem without a crack; exceedingly solid and firm fleshed; an excellent shipper; quality the very best. Oz., 35c; 2 oz., 60c; ¼ lb., \$1.00; ½ lb., \$1.75; 1 lb., \$3.00.

Small Varieties

GROUND CHERRY OR HUSK—Plants of low, spreading growth and immensely productive. The small yellow fruits are each enclosed in a husk or covering. When ripe the fruits are an inch in diameter, bright yellow and of very sweet flavor; highly esteemed for preserving.

YELLOW PEAR—The name denotes shape, also color. It is a rich, clear, yellow color and is one of the very best for preserving.

Ground Cherry and Yellow Pear. Pkt., 10c; oz., 65c; 2 oz., \$1.20; ¼ lb., \$2.00.

THE BURBANK TOMATO

Mr. Burbank states that he has spent more than a dozen years in "evolving" this new "creation" through careful selective plant breeding.

The following is Mr. Burbank's personal introductory claims:

THE EARLIEST TOMATO IN THE WORLD—THE "BURBANK"

"By far the earliest, smoothest, solidest, most productive, and best of all early tomatoes; resists wilt and other tomato diseases better than most others. The "Burbank" is so much earlier than other tomatoes that from the seed of the tomatoes which ripened here in June, a second crop has been again and again grown and ripened the same season, something probably never before known.

"Fruit, bright crimson; thick, solid, heavy, smooth, firm, medium to large in size, superior quality, unusually heavy and continuous bearer throughout the season; best keeper and shipper. The 'Burbank' has one other unique and most remarkable quality which will be appreciated by those who like fresh sliced tomatoes for the table. Unlike other tomatoes, the skin peels freely from the rich, firm flesh." Pkt., 10c; ½ oz., \$1.25; oz., \$2.00; 2 oz., \$3.50; ¼ lb., \$6.00.

Turnips

The value of Turnips and Ruta Bagas for feeding stock in fall and winter is not fully appreciated, as they are much liked by all kinds of stock and serve to keep them in good condition. We recommend that farmers increase their sowings largely, for we are sure the crop will prove remunerative for stock feeding as well as for table use.

CULTURE—For early use sow as soon as the ground can be worked, in drills 15 to 18 inches apart, and half an inch deep. For winter use, sow during July, as early sowings are unfit for winter use.

All varieties of turnips unless otherwise quoted: Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 35c; ½ lb., 55c; lb., \$1.00. At purchaser's expense, lb., 90c; 5 lbs., \$4.00; 10 lbs., \$7.00.

ABERDEEN, YELLOW—Round, medium size, light yellow; strained with purple on top; produces a large crop; flesh very firm, tender and sweet.

AMBER GLOBE—One of the best yellow fleshed varieties, grown usually for stock feeding. The roots are of large size and of globular shape. The skin is clear yellow except the top which is tinged with green. The flesh is light yellow, fine grained and sweet. This variety keeps well and is a good cropper.

COWHORN—Sometimes called Long White. Is slightly crooked, pure white, except a little shade of green at the top. Grows half out of the ground and is of very rapid growth; is delicate and well flavored. An immense yielder.

EARLY FLAT WHITE DUTCH, STRAPPED LEAVED—A leading white-fleshed variety, and one of the best, either for family, market garden or field crop; of medium size and produces a large crop. The flesh is firm, but tender, and of a superior rich, buttery flavor.

MILAN, WHITE—The earliest of all. The earliest turnip and the best quality in its class. A fine, snowy-white color. The skin is so smooth and neat as to seem polished. The foliage is short. Size medium, and the flesh is white, tender and smooth grained. Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 85c; 1 lb., \$1.50.

ORANGE JELLY OR GOLDEN BALL—A distinct variety, one of the most delicately flavored of the yellow fleshed turnips. The tops are small. The roots are medium sized, round, very smooth and with deeper yellow skin than most of this class. The flesh is firm, crisp and of most excellent quality. The roots are in best condition for table use when about three inches in diameter. This variety is of quick growth, adapted to spring as well as fall planting, and keeps exceptionally well. Known also as Robertson's Golden Ball.

POMERANIAN WHITE GLOBE, STRAPPED LEAVED—This is a free growing, rough leaved sort; perfect globe shape; skin white and smooth; leaves dark green.



PURPLE TOP, STRAPPED LEAVED, EARLY—One of the best and most universally grown; small, erect top, round, flat; purplish red above; white underneath; flesh firm, but very tender and sweet.

PURPLE TOP WHITE GLOBE—A perfect globe shape, with smooth, white skin; flesh pure white, firm and crisp. Purple above ground.

SNOWBALL—A perfectly globe-shaped, white skinned turnip. The flesh is fine grained, firm and of very delicate flavor. Very early.

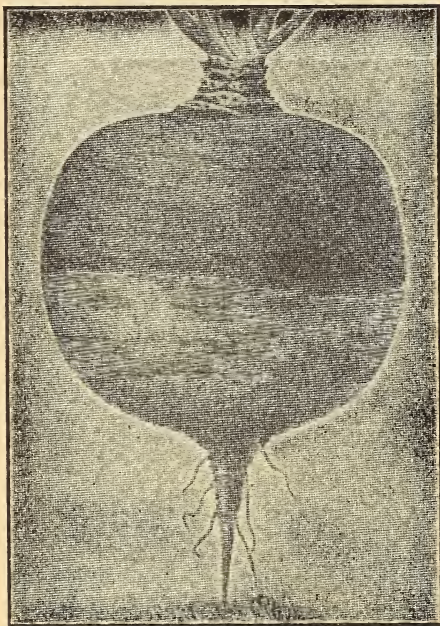
WHITE EGG—A quick growing egg-shaped, perfectly smooth, pure white variety, with small top and rough leaves. It grows half out of the ground; the flesh is very sweet, firm and mild.

TURNIPS—Continued.

All varieties of turnips unless otherwise quoted: Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 35c; ½ lb., 55c; 1 lb., \$1.00. At purchaser's expense, 1 lb., 90c; 5 lbs., \$4.00; 10 lbs., \$7.00.

RUTABAGAS OR SWEDES

For feeding stock in fall and winter there is nothing superior to rutabagas, as they are much liked by all kinds of stock and serve to keep them in good condition. We desire to call special attention to an improved Bangholm. If you have not used this, give it a trial and we believe you will be more than pleased.

**Danish Purple Top.**

BANGHOLM PAJBJERG (Improved Danish Purple Top)—This variety was awarded a first-class certificate by the Danish government for heaviest yield, having given 49 tons per acre.

This purple top sort is excellent both in shape and quality. The roots are of large size, slightly tankard shaped, with small neck and few or no side roots. The skin is yellow with purple top. The flesh is yellow, sweet and solid.

SWEET RUSSIAN OR WHITE—Hardy, easily grown, large, and yields as much as the best yellow kinds; flesh free-grained and solid, but tender and well flavored; good for stock and desirable for the table.

YELLOW SWEDE OR RUTABAGA—Shape oblong, dull reddish color above ground, but yellow underneath; is harder than the common turnip and will keep till spring.

The three foregoing rutabagas: Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 35c; ½ lb., 55c; \$1.00; at purchaser's expense, lb., 90c; 5 lbs., \$4.00; 10 lbs., \$7.00.

Herbs

ANISE—Used for cordials, garnishing and flavoring. Pkt., 10c; oz., 25c.

CARAWAY—Grown for seeds; used for flavoring. Pkt., 10c; oz., 25c.

CATNIP OR CATMINT—Leaves and young shoots for seasoning. Pkt., 15c; oz., 75c.

CORIANDER—Seeds used in the manufacture of liquors, in confectionery and culinary preparations. Pkt., 10c; oz., 25c.

DILL—Seeds have an aromatic odor and pungent taste. Pkt., 10c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 65c; 1 lb., \$1.00.

HOREHOUND—For seasoning and cough remedy. Pkt., 10c; oz., 50c.

LAVENDER—An aromatic, medicinal herb. Pkt., 10c; oz., \$1.00.

MARJORAM—Sweet; leaves and shoots used for seasoning. Pkt., 10c; oz., 40c.

SAGE—One of the most extensively used herbs for seasoning; hardy perennial about fifteen to eighteen inches high. Plant very branching; flowers usually blue, sometimes pink or white; leaves grayish green. oval, wrinkled. Pkt., 10c; oz., 75c; ¼ lb., \$2.50.

SUMMER SAVORY—Used for flavoring soups. Pkt., 10c; oz., 40c.

THYME—Leaves and young shoots used for seasoning; a tea is made from leaves, a remedy for headache. Pkt., 10c; oz., \$1.00.

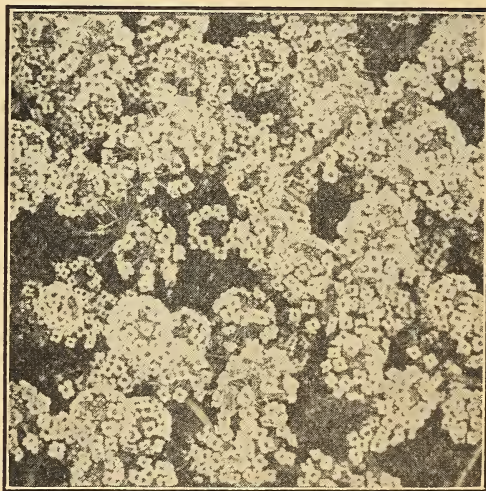
Flower Seeds

ACROCLINIUM—(Everlasting): A very pretty, half hardy annual producing white and rose colored, double daisy-like flowers, about one-half inches in diameter. Each flower-head is borne singly on a very long stem; leaves small, narrow, alternate. Grows about 15 inches high. double. Mixed: Pkt., 10c.

AGERATUM—Floss Flower (A)—One of the most useful and profuse-blooming plants known. A beautiful, hardy annual of neat bushy habit. The attractive feathery flowers borne in dense clusters are very useful for bouquets. Very desirable for outdoor bedding and borders, being covered with bloom nearly all summer. Mixed. Pkt., 5c.

MEXICANUM COERULEUM—Blue. Pkt., 10c.

MEXICANUM GRANDIFLORUM—White. Pkt., 10c.

**Sweet Alyssum**

ALYSSUM SWEET LITTLE GEM (A)—The plants are very dwarf and spreading; they grow only three to four inches high, and each plant completely covers a circular space 12 to 20 inches in diameter. They soon become one mass of white, remaining in full bloom from spring to fall. Pkt., 10c; oz., 75c.

AMARANTHUS (A)—Brilliant-foliaged annuals, growing from three to five feet high, bearing curious racemes of flowers. Useful in borders of tall plants or for the center of large beds. They thrive best in a hot, sunny location, not too rich soil, and given sufficient room to develop their full beauty.

Mixed: Pkt., 5c.

CAUDATUS (Love Lies Bleeding)—Blood red; drooping. Pkt., 5c.

ANEMONE (Coronaria) (P) (Wind Flower)—Among the earliest of spring flowers. They are about two inches across, with blue stamens, resemble the single poppy in shape and come in several shades of color. The foliage is deeply cut. A most valuable class of hardy plants suitable for edging, massing or single specimens. They grow rapidly two to three feet and are profuse in bloom, gaining strength and beauty each year. Single, Mixed Pkt., 10c.

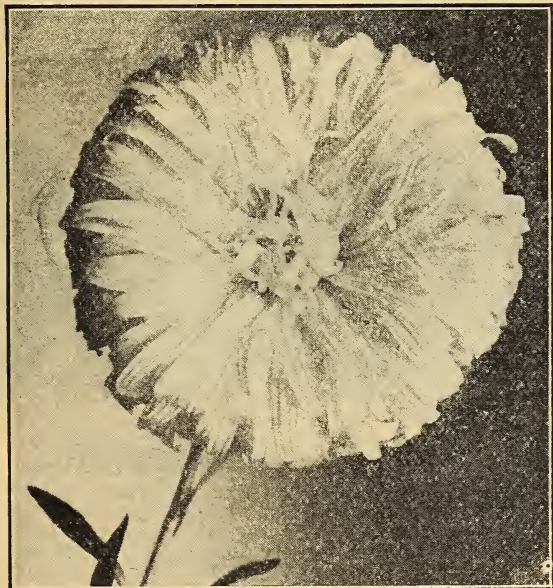
ASTERS

There is no more beautiful flower than the Aster, and there is none with a greater diversity of colors and sizes. These have been very much improved, so that today the largest and most beautiful resembles a fine Chrysanthemum more than it does an old-fashioned Aster.

Our stock has been selected with the greatest care, so that we are able to offer varieties that will undoubtedly please and delight anyone giving them reasonable care.



Improved Crego Giant



Giant Comet

COMET, GIANT BRANCHING (A) — Are thrifty growers, 15 inches high, bearing immense long stemmed flowers, composed of long, wavy petals, like Japanese Chrysanthemums. Crimson, White, Shell Pink, Lavender, Royal Purple Rose and Mixed. Pkt., 10c; ½ oz., \$1.00; oz., \$1.75.

“CREGO GIANT” (A)—The “Giant” Crego is distinct in every way, and its magnificent flowers, often growing to 6 inches in diameter, are fully equal to Chrysanthemums. They have rare beauty of form and brilliant coloring, are very vigorous, and free flowering; blooms are borne on long stems. White, Shell Pink, Purple, Lavender and mixed. Pkt., 10c; ½ oz., \$1.00; oz., \$1.75.

IMPROVED OSTRICH FEATHER (A)—The finest type of the Giant Comet, or Ostrich Feather type of Asters. Much larger than the Giant Comet, the petals longer and more curled and twisted, and produced in greatest abundance. Borne on long stems, which makes them Cut flowers par excellence. White, Dark Blue, Rose Pink, Crimson and mixed. Pkt. 10c; ½ oz., \$1.00; oz., \$1.75.



Improved Ostrich Feather

ASTERS—Continued

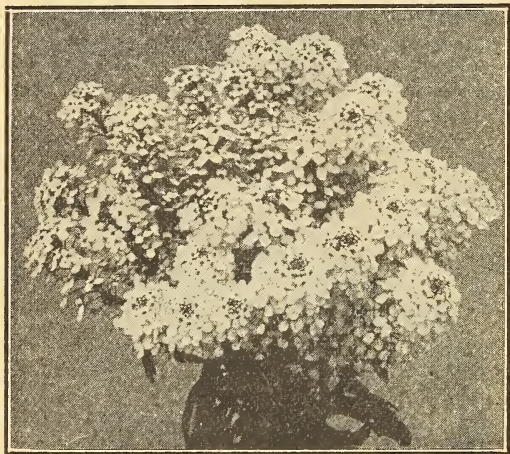
ASTERMUM—(What is It?)—A strain of Comet Asters which on account of their immense size and chrysanthemum-like appearance have appropriately been named Aster-mums. They were first exhibited at the convention of American Florists in 1912 and attracted great attention. The plants grow about two feet high with long, strong stems. Most of the flowers are five inches across. Mixed Pkt., 15c; ½ oz., \$1.25; oz., \$2.00.

BACHELOR'S BUTTON, OR CENTAUREA CYANUS (A)—A hardy annual, easily cultivated. Has recently been greatly improved, and now produces handsome flowers of a great variety of rich colors. Borne on tall, branching stems, with but little foliage. Striking and handsome. Single. Mixed Pkt., 5c; oz., 35c.

BALSAM OR LADY'S SLIPPER (A)—An old and favorite garden flower, producing its gorgeous masses of beautiful brilliant-colored double flowers in the greatest profusion; of easy culture; succeeds in a good rich soil; tender annuals; 2 feet. Start the seed indoors in April or sow out of doors in May. To grow fine specimens they should not be closer than 18 inches apart. Double Camellia-Flowered—Mixed. The largest double variety. Pkt., 10c; Single Mixed Pkt., 10c.

BEGONIAS (P)—Begonias are among the most beautiful of flowering plants, especially adapted to pot culture. Dwarf. Mixed, Pkt., 25c.

CALENDULA (POT MARIGOLD) (A)—Very hardy annual, one foot high, blooming freely practically the whole year round. Is of the easiest culture and is desirable for rather inferior soils, where less sturdy flowers do not thrive. A medicinal extract resembling arnica is made from the flowers. Double Mixed Pkt., 5c; oz., 25c.



Candytuft.

CANDYTUFT (A) (Iberis)—Showy, branching plants twelve to fifteen inches high and bearing in profusion terminal clusters of beautiful single cruciform flowers in a wide range of colors. Considered indispensable for cutting and very effective in beds, masses or rockeries.

Empress (A), White. Pkt., 10c; oz., 60c; Mixed (A), Pkt., 5c; oz., 50c.

CALLIOPSIS (A)—A quick growing annual. The flowers are placed on graceful wavy stems and in color run through all the shades of red and yellow; foliage dainty; useful combined with other flowers. Tall double mixed. Tall, single. Mixed, Pkt., 5c.

CANNA FRENCH—Crozy's dwarf, mixed—(P)—Ornamental tropical-looking plants of easy culture; large and beautiful flowers. Hardy perennial. Pkt., 10c.



Canterbury Bells

CANTERBURY BELLS (Campanula Calycanthema) (Cup and Saucer) (B)—Produces beautiful single flowers three inches in length with saucers three to four inches in diameter. The plants form pyramids of bloom bearing from 100 to 200 of these exquisite blossoms for weeks during the early summer. A hardy biennial 2½ feet high, flowering the second season from seed. White, Blue, Pink. Pkt., 15c; ½ oz., \$1.25; oz., \$2.00; mixed, all colors, pkt., 10c; ½ oz., 60c; oz., \$1.00.



CARNATION

The Carnation has always been one of the most esteemed of flowers, on account of their spicy fragrance, richness and diversity of color, great beauty, free-blooming and ease of culture. The several mixtures offered by us are among the very best obtainable. For early blooming sow under glass. Can be sown in the open garden. Half hardy.

MARGUERITE DOUBLE MIXED (P)—The most magnificent of all the Pink family and general favorite for their delicious fragrance and richness of color. Pkt., 10c; ½ oz., \$1.00; oz., \$1.75.

GIANT MALMAISON (P)—An exceedingly fine mixture. Pkt., 15c.

EARLIEST FRENCH MIXED (P)—Produces double, sweet-scented flowers, in a great variety of colors and in great profusion. Pkt. 15c.

CENTAUREAS

Centureas embrace some foliage plants but are more generally known for their hardy flowering annuals which include some of our most graceful and showy garden flowers that have long been favorites for cutting. The tall slender straight or slightly branching plants with narrow leaves thrive well in common garden soil. They produce bright colored single and double heads of flowers on long graceful stems and some sorts are fragrant.

IMPERIALIS ROYAL SWEET SULTAN (A)

—This beautiful class is undoubtedly the finest of all Sweet Sultans for cut flower purposes. The beautiful sweet-scented, artistic-shaped flowers are borne on long, strong stems, and when cut will stand for several days in good condition. It is best, in this latitude, to sow very early in the spring, so that they may perfect their flowers before very hot weather arrives. Mixed Pkt., 10c; Blue, Pkt., 10c.

CANDIDISSIMA OR WHITE LEAVED DUSTY MILLER (A)

—Silvery white; leaves broadly cut. Fine for bedding, vases, hanging baskets and pots; also extensively used for margins. As an edging to a bed of dark-leaved Cannas or Scarlet Sage these are particularly effective. Sow the seed early indoors, and transplant in May. Pkt., 10c.

CHILDSII, CHINESE WOOL FLOWER.—A

distinct form of the plumed Celosia, with beautiful, ball-shaped flower-heads of a purplish crimson color, somewhat resembling a ball of wool. It flowers profusely during summer and fall. Two to three feet tall. One of the finest fall-blooming annuals. Pkt., 15c.

CELOSIA (COCKSCOMB) (A)

—Free blooming annuals, growing best in light soil not too rich. They make splendid border plants and are attractive for pots. Fine dwarf, mixed, pkt., 10c.

CHRYSANTHEMUMS

—These outdoor "summer Chrysanthemums" are showy and effective for bedding or borders in the garden and desirable for cut flowers. Plants become more bushy and shapely if pinched back in early growth and the practice of disbudding will result in much larger flowers. These annuals are not the winter flowering sorts sold by florists and which are propagated only by division of roots. Double Mixed, Pkt., 10c; Single Mixed, Pkt., 5c.

CLARKIA (A)

—Handsome, free flowering annuals of easy cultivation. Produce a fine effect massed in beds. Flowers are very bright and attractive. Double mixed, Pkt., 5c.

COLEUS (P)

—Magnificent ornamental foliage plants for house or garden culture. The leaves are of many shapes, and the shades and colors are of remarkable beauty. Finest Hybrids Mixed, extra choice, pkt., 25c.

COLUMBINE OR AQUILEGA (P)

—A delightful hardy perennial, growing about two feet high, and splendid for permanent beds and borders. Thrives in partial shade and under the spray of a fountain or other moist location. Bears exquisite blossoms of clear blue, white, rose, purple and striped. Single mixed, pkt., 10c; ½ oz., 75c; oz., \$1.25. Double mixed, pkt., 10c; ½ oz., \$1.00; oz., \$1.75.

COREOPSIS (LANCELATA) (P)

—Blossoms the first year; flower rich yellow, single; very fine for cutting. Pkt., 10c.

COSMOS—Very effective for autumn flowering in broad masses or backgrounds. A hardy and rapid grower, forming bush-like plants with



Cosmos

feathery green foliage, four feet high, covered with large flowers somewhat resembling the single dahlia. They are gracefully poised on long stems and very useful for decorative purposes. Extra early, mixed, pkt., 10c; ½ oz., 35c; oz., 60c.

DAHLIA (P)

—But few people know Dahlias can be raised from seed and will bloom the first year. The seeds germinate as easily and certainly as Zinnias, and from the very first development are strong and sturdy little plants. Plant them in a shallow box or pan early in March or April, transplant them carefully as their growth demands. When all danger from frost is over plant them in the bed or border in the garden, and from then on they will prove no more trouble than if the tubers had been used instead of seed. Double Mixed, pkt., 10c; ½ oz., \$1.25; oz., \$2.00. Single Mixed, pkt., 10c; ½ oz., 75c; oz., \$1.25. Double Cactus Mixed, pkt., 15c; ½ oz., \$2.25; oz., \$4.00.

DAISIES

AFRICAN DAISY (Dimorphotheca Aurantiaca)

(A)—A rare and extremely showy annual from South Africa which has become a great favorite on account of its very easy culture and beautifully colored flowers. Its Marguerite-like blossoms, produced in great profusion, are 2½ to 3¼ inches in diameter. These are a unique glossy rich orange gold, which brilliant coloring is rendered more conspicuous by the dark disk surrounding the black zone. Pkt., 10c.

BELLIS, DOUBLE (P)

—Beautiful double flowers that appear in early spring if plants are slightly protected over winter. Blossoms also early from spring-sown seed, as plants bloom when but two or three inches high. Mixed, pkt., 15c.

SHASTA (P)

—A most remarkable new flower, originated by Luther Burbank, of California; bears flowers of the snowiest white, with yellow centers; blooms the first season and should be sown in boxes early and transplanted. Pkt., 15c; ½ oz., \$1.75; oz., \$3.00.

DAISIES—Continued



Shasta Daisy

DIANTHUS OR PINKS (B)—A magnificent genus, embracing some of the most popular flowers in cultivation, producing a great variety of brilliant colors and profusion of bloom. They grow about a foot high and can be used in beds or borders of solid or mixed colors. The double flowering sorts are almost as fine as Carnations for cutting. Should have a sunny location. Single, Mixed, Pkt., 10c; Double Mixed, Pkt., 10c.

DIGITALIS (Foxglove) (P)—Handsome, ornamental, hardy plants of stately growth. The seed, though small, germinates readily and the plants succeed well even in poor soil if given a half shady location. The spikes are often 3 to 5 feet long and thickly strung with scores of thimble-shaped flowers. Mixed colors, pkt., 5c; ½ oz., 75c; oz., \$1.25.

EVERLASTING (Helichrysum) (A)—Sometimes called the Straw Flower. Large, full, double daisy-like flower heads with prominent centers and stiff overlapping scales, produced in various shades of bright yellow and scarlet on stems of good length. Desirable as dried specimens and for use in making winter bouquets. For this purpose the flowers should be gathered when on the point of expanding. Sow early in spring; thin to one foot apart each way. Hardy; two to two and one-half feet high. Monstrosum, fl. pl., finest mixed. Largest double flowers, pkt., 5c.

FORGET-ME-NOT (MYOSOTIS) (U)—A modest little flower. A pretty traller with blue flowers. Pkt., 10c; ½ oz., \$1.25; oz., \$2.00.

FOUR O'CLOCK (MIRABILIS) (A)—Is also called Marvel of Peru. A handsome, free-flowering, sweet-scented plant. They open their blossoms about four o'clock in the afternoon, hence their name. Hardy annuals. Choice mixed, pkt., 5c.

GAILLARDIA (BLANKET-FLOWER) (A)—Splendid showy annuals, remarkable for the profusion, size and brilliancy of their flowers, continuing in bloom from early summer till November; excellent for beds, borders, or for cutting; should be sown where they are to bloom; 1½ feet. Fine Mixed Double, pkt., 10c. Perennial, Single, Mixed, pkt., 10c.

GERANIUM (P)—Comparatively few are aware that Geraniums may be grown easily from seed and flower the first season if sown early. This is the best way to secure Geraniums, as they will frequently reward the cultivator with charming new varieties. In fact, propagation by seed is the only way to obtain new varieties. Zonale Mixed, pkt., 20c; ½ oz., \$2.25; oz., \$4.00.

GOSETIA (A)—An attractive, hardy annual deserving more extensive cultivation. The plants bloom profusely and bear showy flowers of rich and varied colors, one and one-half feet. Mixed, pkt., 5c.

GYPHOPHILA OR BABY'S BREATH (A)—A pretty, free-flowering plant. Fine for bouquets. Pkt., 5c. Perennial, Pkt., 10c.

HELIOTROPE (P)—A half-hardy perennial, growing about 18 inches high. Small flowers, borne in graceful clusters and very fragrant. Blooms the first season from seed if sown early. Forms a large plant and requires a roomy situation. Can also be grown against a wall and made to assume the character of a climber. Finest mixed, pkt., 15c.



Heliotrope

HOLLYHOCKS (P) Chater's Superb Double. Finest Mixed—These fine, old-fashioned perennials are most striking when planted in groups of long rows; their variety of color is wonderful. When plants are once obtained they last for several seasons. Double mixed, pkt., 10c.

ICE PLANT—Tender Annual Traller—A pretty little traller for baskets or massing; 6 inches high. Leaves covered with crystalline drops. Flowers white or pink. Valued for its remarkable foliage. Pkt., 10c.

JOB'S TEARS—Coix Lachryma—An annual ornamental grass, with broad, corn-like leaves and hard shining seeds of peculiar appearance, giving the plant its name. Two feet. Pkt., 5c.

KOCHIA TRICHOPHYLLA (Mexican Fire Bush, or Summer Cypress) (A)—A quick growing foliage or hedge plant, very symmetrical and attractive in summer and fall. The foliage is as fine as moss and of clean, bright, green color. Early in the fall innumerable little flowers appear and the bush takes on a deep red tinge. Sow outdoors early in spring, covering one-fourth inch deep; about two and one-half feet high. Pkt., 5c.

LARKSPUR (A) (Delphinium)—The Larkspur with its long clustered spikes of beautiful irregular flowers, often with long spurs is especially valuable for its shades of blue. The annual forms are very desirable for bedding and the perennials are strikingly effective as a background for borders and for planting among shrubbery. Seed of annual varieties may be sown outdoors early in spring. For earlier blooming start very early indoors or sow in fall. Thin one to one and one-half feet apart. The perennial sorts are sown in fall or early spring.

ANNUALS—Double Dwarf Rocket, mixed, pkt., 5c; ½ oz., 60c; oz., \$1.00. Double Tall Rocket, mixed, pkt., 5c; ½ oz., 40c; oz., 75c. Perennial, large flowering, dark blue, pkt., 10c;

LINUM (Scarlet Flax) (A)—One of the most effective and showy bedding plants, of long duration, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers; hardy annual; one foot. Pkt., 5c.

LOBELIA (A)—A very valuable and beautiful dwarf-growing plant, delicate drooping habit and profusion of charming little blue and white flowers.

Dwarf Single, mixed, pkt., 10c. Single Tall Blue Speciosa, pkt., 10c. Single Dwarf Blue, pkt., 20c.

MARIGOLD

Tagetes (A)—The African and French Marigolds are great favorites; free-flowering, hardy, of easy culture. The African varieties grow two to three feet tall, bear large yellow or orange-colored flowers, and are adapted for large beds or mixed borders. The French varieties are dwarfer in growth, with beautiful striped flowers three to four inches in diameter, and are better suited for bedding and pot culture. They succeed best in light soil with full exposure to the sun. Either variety is splendid for cut flowers.

Tall Double African, about two feet high with flowers three to four inches in diameter, in shades of yellow and orange. Mixed, pkt., 10c.

Tall Double French, one and one-half feet high with large double flowers. Mixed, pkt., 10c.

Dwarf Double African, about one and one-half feet high; large flowers; desirable for shrubbery or mixed border. Mixed, pkt., 10c.

Dwarf Double French, one foot high with large flowers. Mixed, pkt., 10c.

Orange African Dwarf, very double; rich orange; profuse bloomer; very desirable. Pkt., 10c.



Mignonette

A well-known hardy annual producing dense spikes of exceeding fragrant flowers and much esteemed for their delightful fragrance. If sown in intervals it will bloom until frost.

Allan's Defiance—Spikes grow to a remarkable size and delicious fragrance. The individual florets are of immense size, forming a graceful as well as compact spike. Of extraordinary keeping qualities, retaining their grace and fragrance until every bud opens. Mixed, pkt., 10c; ½ oz., 45c; oz., 75c.

GOLDEN MACHET—A compact growing variety with medium long thick spikes of yellow flowers. Pkt., 10c; ½ oz., 45c; oz., 75c.

MOSCHATUS (Musk Plant) (P)—Small yellow flowers, fragrant foliage; leaves musk scented; fine for hanging baskets. Pkt., 10c.

NASTURTIIUM

For ease of culture, duration of bloom, brilliancy of coloring and general excellence nothing excels Nasturtiums. All they need is a moderately good soil in a well-drained, sunny position, and from within a few weeks from the time they are grown until hard frost comes there is an endless profusion of their gorgeous blossoms. No annual will produce such a lavish profusion of flowers for so long a time, with the same small outlay of time and labor. The maximum of bloom is produced in light or sandy soils and seldom diminishes through the hot weather.

TALL OR CLIMBING—(A)—Specially adapted for covering verandas, trellises, trees, stumps, etc. Mixed, pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 70c; lb., \$1.25.

TOM THUMB OR DWARF—(A)—When planted in beds or masses the brilliant effect of these splendid flowers is scarcely surpassed by any of our finest bedding plants. Mixed, pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 45c; ½ lb., 70c; lb., \$1.25.

VARIEGATED FOLIAGE—The colors range from deep crimson to yellow, buff and spotted; of fine form and of the largest size. Very effective, forming a fine contrast to the silver variegated or cream and green colored leaves of the foliage. Very showy and a decided novelty of most surpassing beauty. Tall and dwarf, Pkt., 10c; oz., 25c; 2 oz., 40c; ¼ lb., 75c.

NEMOPHILA—BABY EYES—LOVE-IN-THE GROVE (A)—A charming little annual plant, thriving especially well in moist, shady places, but quite at home in the open garden. The pretty, bell-shaped flowers are freely produced all summer. Plants eight inches high; of neat, bushy habit. Mixed, pkt., 5c.

NICOTIANA—AFFINIS (Tuberose-Flowered Tobacco) (A)—Delightfully sweet-scented, tubular flowers, blooming continually; annual, two to three feet high. Mixed, pkt., 10c.

NIGELIA—LOVE IN A MIST OR DEVIL IN THE BUSH—DAMASCENA (A)—A compact, free-flowering plant with finely cut foliage, curious-looking flowers and seed pods; of easy culture, growing in any garden soil; hardy annual, blue and white mixed. Height one foot. Pkt., 5c.

PANSIES

PANSY—(VIOLA ARICOLOR) (P)—A half hardy perennial, growing four to six inches high and probably the best known and among the most popular flowers in cultivation. It thrives best in a moist, shady location, and in rich, loamy soil. Seed should be sown in the autumn for early spring blossoms, or can be sown early in the year for good flowers later in the spring.

FAUST—King of the Blacks—Almost coal black. The darkest Pansy grown. Pkt., 15c.

FINEST MIXED—Fine assortment of colors Pkt., 10c; ½ oz., \$1.50; oz., \$2.25.

STEELES MASTODON—These have been carefully re-selected and bred up to their present surpassing excellence, and for giant size, substance, form and coloring we have never seen Pansies to compare with them. Named varieties and special strains are grown separately and the seed collected by hand and carefully blended into what we believe to be the finest mixture ever offered. Pkt., 25c; ½ oz., \$3.50; oz., \$6.50.

TRIMARDEAU CANDIDISSIMA—Snow white. Pkt., 20c.

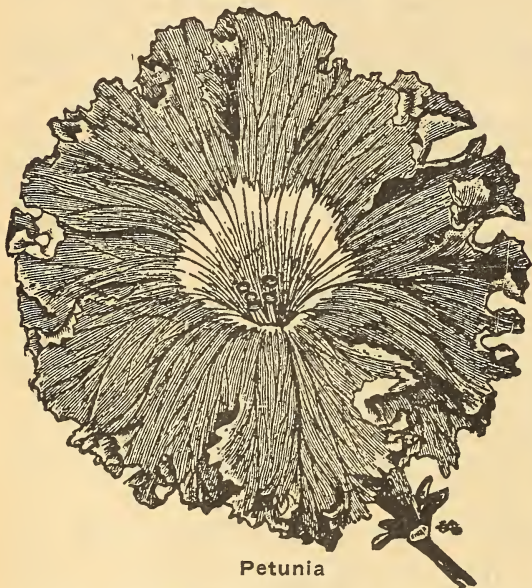
PANSIES—Continued



Mastadon

TRIMARDEAU GIANT, MIXED—A splendid mixture of various shapes and markings. The blossoms are perfectly round and are blotched at the base. Pkt., 20c; $\frac{1}{2}$ oz., \$2.75; oz., \$5.00.

PETUNIA



Petunia

PETUNIA (A)—Is without a peer among annuals for effective summer bedding or indoor culture. It is of easy culture, early to bloom and continues throughout the summer until the firsts killing frost. No other flower produces a greater diversity of color, retaining its freshness for so long a period. The doubles may be perpetuated, if desired, by taking cuttings late in the summer, for winter house blooming plants. Provide good soil and a sunny location.

Single Mixed, pkt., 10c; Single Fancy Mixed, pkt., 15c.

Double Fringed, Mixed, Pkt., 30c.

PHLOX



PHLOX DRUMMONDII (A)—Of all summer-flowering annuals, the varieties of Phlox Drummondii are unquestionably one of the most brilliant and satisfactory. Seed may be sown in the open ground any time after danger from frost is past, and in a few weeks the beds or borders are aglow with their brilliant coloring and remain so until cut down by frost. For early flowering they should be started indoors or in a hotbed. Grandiflora Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.00. Perennial Mixed, pkt., 15c.

POPPIES



Shirley Poppy

Probably no class of plants enjoys greater popularity and is more widely grown than the annual poppies; this is especially true of the single varieties. They are easily grown, and should be sown in beds or wild patches, in early spring, where they will grow high above the grasses on tall, graceful stems.

CARMINE KING (A)—Beautiful carmine rose color, both on the interior and exterior of the flower. Very handsome. Pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00.

GOLDEN WEST (A) (*Eschscholtzia*)—This is the best known of this species of poppies and has been a great favorite wherever sown. Color, rich, rare tints of yellow and orange; very beautiful. Pkt., 5c; $\frac{1}{2}$ oz., 30c; oz., 50c.

MIXED (A)—This is a special mixture and comprises many of the best named varieties and embraces all colors and shades of this popular flower. Pkt., 10c; $\frac{1}{2}$ oz., 45c; oz., 75c.

ICELAND (P)—A graceful, delicate variety, with single flowers, the petals resembling crumpled tissue paper. The plant is low-growing, but the stems are long and slender. Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.

ORIENTAL (P)—One of the showiest of the perennials, with enormous flowers. The leaf is long and deeply cut and clothed with white, bristly hair. Beautiful among shrubs, roses and other perennials. Mixed, pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

SHIRLEY IMPROVED (A)—The most beautiful type of poppies, having soft, hairy foliage, and a variety of single blossoms in white, pink, lavender, purple, red and scarlet. Free blooming and fine for bedding or tall border. Mixed, pkt., 10c; $\frac{1}{2}$ oz., 45c; oz., 75c.

PORTULACA OR ROSE MOSS (A)—Brilliant, dwarf annuals, only six inches high, luxuriating in warm situations and blooming profusely from early summer to autumn. For low beds and masses of color, from spring until frost, they are indispensable.

Single Mixed, pkt., 10c; Double Mixed, pkt., 15c.

PRIMULA VULGARIS (P)—The beautiful wild English Primrose. It grows best in shady places. The seed is very slow in germinating and may stay in the ground a year, but once established the plants are quite hardy. The oval oblong leaves are all from the root, the plants forming dense tufts. The flowers are salver-shaped, with five lobes of reversed heart shape, clear yellow with touch of orange at base. Six inches in height. Pkt., 10c.

PRIMROSE—SINENSIS OR CHINESE (P)—The beautiful, large fringed flowers stand in pyramids arranged on short flower stems. Blossoms of ever shade of color, from pure white to deep crimson, and even deep blue; especially fine for winter and spring flowers in the house; easily grown; free bloomers. The finest single mixed. Pkt., 25c.

RICINUS, OR CASTOR OIL BEAN (A)—Ornamental plants of steady growth and picturesque foliage with brilliant colored fruit, producing a sub-tropical effect; fine for lawns, massing or center plants for beds. Finest Mixed, pkt., 5c; oz., 25c.

SALPIGLOSSIS (A)—The quaint, funnel-shaped flowers somewhat resemble those of the Petunia; beautiful range for colors. Finest Mixed, pkt., 10c.



Salpiglossis (Velvet Flower)

SALVIA (Flowering Sage)—Splendens—Sold also as "Splendens Bonfire" (A). The large, brilliant scarlet flowers are in very striking contrast with the rich, dark green back-ground of dense foliage. This variety is most generally used in parks and on extensive lawns, as it is more vigorous than the dwarf varieties. One of the most distinct and effective bedding plants. Two and one-half to three feet high. Pkt., 15c.

SCABIOSA, OR MOURNING BRIDE (A)—A free-flowering annual; colors, white, carmine, lilac, maroon, etc. Very effective for garden decoration and valuable for cutting. Dwarf or tall double mixed. Pkt., 5c.

SCHIZANTHUS (Butterfly Flower) (A)—Hardy, growing one and one-half to two feet high and covered with bright, showy, butterfly-like blossoms. Large flowering. Mixed pkt. 10c.

SNAPDRAGON, OR ANTIRRHIN (P)—One of the most useful and showy plants. Of almost every shade and color as beautiful as Carnations. They have recently been much improved and are now really magnificent. Hardy perennial.

Finest Mixed, pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00; White, pkt., 10c. Pink, pkt., 10c. White and Pink, $\frac{1}{2}$ oz., 90c; oz., \$1.50.

STATICE (Sea Lavender) (P)—One of the most highly prized amongst the everlasting flowers, as it consists of masses of small bright flowers on large sprays, which when dried make fine winter bouquets. Mixed, 10c.

STOCK (Mathiola)—Sometimes called Gilliflower. Considered almost indispensable where a fine display of flowers is wanted and particularly valued for edgings, bedding and pot culture. The improved varieties of this favorite garden plant produce dense spikes of very fragrant and beautiful rosette-like double flowers in a wide range of attractive colors. They are suitable for cutting, being produced on stems of good length in pleasing contrast with the dark green foliage of the bushy plants.

The Stock is one of the most popular annuals; for brilliance and diversity of color, fragrance, profusion and duration of bloom it is unsurpassed.

LARGE FLOWERING DWARF, 10 WEEKS (A)—This is the leading class for bedding out or summer-blooming. Mixed. White, Dark Blue, pkt., 10c. Perennial Dwarf, mixed, pkt., 10c.

POPPIES—Continued

SUNFLOWER (*Helianthus* (Double *Chrysanthemum* Flowering) (A)—This pretty sunflower grows to be 3 to 5 feet high and has late in summer bright golden yellow flowers on stiff stem; fine for cutting. This is a pretty and refined flower four inches across. Pkt., 5c; oz., 50c.

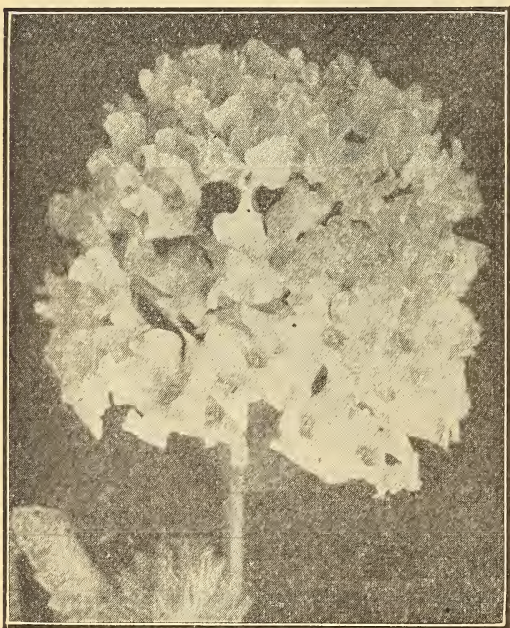
SWEET ROCKET (*Hesperis*) (P)—Old-fashioned garden plant, and among the most desirable of hardy flowers; also known as Dame's Rocket and Dame's Violet; grows from two to three feet high, and bears spikes of showy white, lilac and purple fragrant flowers. Excellent for naturalizing among shrubbery or for planting in a permanent border; mixed colors. Pkt., 5c.

SWEET WILLIAM (P)—A well-known, attractive, free-flowering, hardy perennial, producing a splendid effect in beds and borders with rich and varied flowers. Mixed, Double, pkt., 10c; Mixed Single, pkt., 10c.

THUNBERGIA (*Black-Eyed Susan*) (A)—One of the best trailing plants for veranda boxes, vases, etc. Neat, compact growth. The pretty flowers, an inch in diameter, are white, buff or yellow, with black eye. Finest, Mixed, pkt., 10c.

TRITOMA (*Red Hot Poker*) (P)—The sturdy plants average from two to five feet in height. The flower heads, borne on stout stems two to three feet long, are from six to nine inches in length, the colors including lemon to golden yellow, orange, orange-scarlet, and crimson. Plants in full bloom are exceedingly noble and striking in appearance. Where bright and bold effects either in the border or upon the lawn are desired nothing can exceed the beauty of this new early-flowering ever-blooming "Poker-Lily." Pkt., 10c.

VERBENA (A)—Very few annuals will make such a gorgeous display during the summer months or furnish more flowers for cutting than the Verbena. Start seed in the house or under glass early in the spring and transplant after three or four inches of growth.



Verbena

They flower in July and continue strong and healthy until destroyed by frost. Mammoth Extra Choice, Mixed, pkt., 10c; ½ oz., 90c; oz., \$1.50.

VINCA (*Periwinkle*) (P)—These very attractive bushy plants with glossy green foliage produce in abundance handsome round or salver shaped single flowers, suitable either for culture in pots or boxes or for summer bedding and borders. If sown early under glass and transplanted in a warm, sheltered situation will bloom in summer and autumn and may be potted for the house before frost. The plants require no trimming, are in continuous bloom from setting out until frost and are entirely free from the attacks of insects. These desirable features account for the increasing demand for Vincas in parks and private grounds for summer bedding and borders. Tender perennial, blooming the first season, about fifteen inches high. Mixed, pkt., 10c.

WALL FLOWER (P)—Produces spikes of beautiful, exceedingly fragrant flowers. Half-hardy perennial. Mixed, Single, large flowering. Pkt., 5c; Mixed Double, pkt., 20c.



Violets

VIOLETS (P) — Violet *Odorata* is the well-known English Violet, a free-flowering, hardy perennial. Easily grown from seed, though somewhat slow in germinating; succeeds best in partially shaded moist places. Very early bloomer. Sweet scented, very pretty and very popular and a beautiful blue. Pkt., 10c.

GARDEN MIXTURE (A)—A garden is not complete without a bed of this mixture of flowering annuals. A package will sow a bed about two by ten feet, and if sown early in the spring will furnish continual bloom throughout the season. Pkt., 10c; oz., 40c; ¼ lb., \$1.00.

ZINNIAS (*Elegans Grandiflora Double*) (Youth and Old Age). (A)—Is one of the most brilliant and showy annuals, and has long been a general favorite. The seed can be sown early in the hotbed and transplanted, or sown later in the open ground. They come in flower early in the summer, and keep on blooming until first frost. Mixed, pkt., 10c; ½ oz., 75c; oz., \$1.25.

Zinnias has been very greatly improved in recent years and we are now offering what is known as Giant Dahlia Flowered Zinnias. These are specially fine and is such an improvement over the old type that there is not any comparison. Dahlia Flowered Zinnias come in pastel shades, the distinctive manner in which the pigments are distributed throughout the petals makes them extremely difficult to describe.

SPENCERS



Zinnias

CRIMSON MONARCH—By far the largest and best of the red shades. Flowers often eight inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit. Pkt., 25c.

ILLUMINATION—This is one of the most pleasing of this new collection of Giant Dahlia Flowered Zinnias as regards form and size. A striking self color of deep rose. Pkt., 25c.

POLAR BEAR—A very large pure white; the very best white yet introduced in the form of Zinnias. Fine Dahlia form, large and handsome. Pkt., 25c.

SPECIAL MIXTURE—This special mixture contains the very best of this type of Zinnias. Is well blended and certainly will give splendid results. Pkt., 15c; ½ oz., \$1.75; oz., \$3.00.

SWEET PEAS

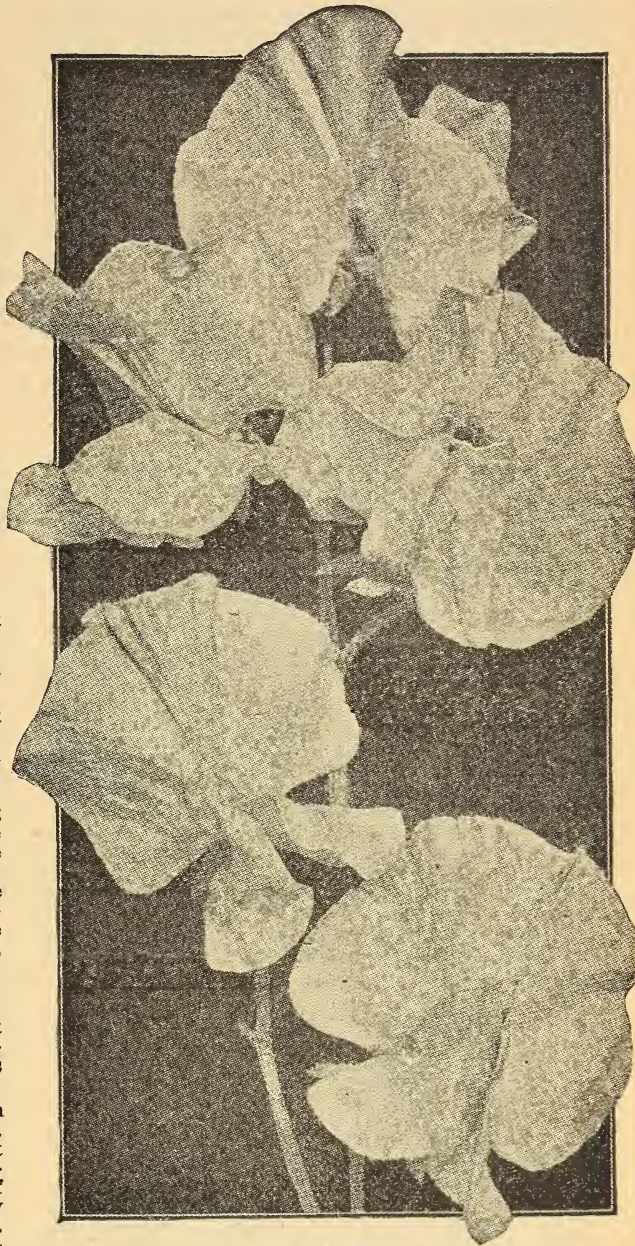
No garden is too small for a row of Sweet Peas, and no estate, however extensive or magnificent, should fail to include many varieties of this most popular flower.

CULTURE—Early in spring make a trench three to four inches deep in rich, mellow soil. Plant the seed in the bottom, covering at first one inch deep. In soils at all heavy, or composed largely of clay, put about one inch of sand in the bottom of the trench and sow the seed in this, covering with more sand. When the plants are two inches high, cultivate and as they grow gradually fill up the trench. When the plants are about five inches high it is desirable to furnish some support for the vines to run upon. Water applied thoroughly once or twice a week, preferably early in the morning or in the evening, is usually better than light sprinkling more frequently. The blooms should be picked before they form pods or the plants will soon stop flowering.

STANDARD SPENCERS

All the following 20 varieties of choice Spencer Sweet Peas. Pkt., 10c; oz., 40c; 2 oz., 75c; ¼ lb., \$1.25; 20 pkgs., any assortment, \$1.50, or 12, \$1.00.

Blue MRS. TOM JONES—Bright delphinium-blue. The flowers are very large and of great substance; beautifully waved, and invariably come four on a stem of great length. A first-class rich blue has long been wanted and now we have it in this charming and beautiful novelty.



White Spencer

WEDGWOOD—Bright silvery blue. Large, well waved flowers on long stems. An attractive and very desirable shade.

Cerise ILLUMINATOR—Glowing cerise-salmon with an indication of bright orange. Under artificial light, the flowers appear to be a glowing orange-scarlet.

SINCERITY—A unique, pleasing shade of bright, glowing cerise. The large flowers are produced four on a stem. A strong grower and free bloomer.

Cream DOBBIE'S CREAM—A strong growing, cream or primrose. A profuse blooming variety, with large, much waved flowers, often duplexed.

FLORADALE FAIRY—Undoubtedly the deepest, most richly colored of all the cream varieties. The flowers are large, beautifully waved, many of them duplex and four on a stem.

SWEET PEAS—Continued

Crimson CHARITY—A magnificent flower in size as well as in form. The blooms are a rich brilliant crimson which does not burn in the sun. The plants make a vigorous growth and produce their well-waved flowers on long stems, each carrying four large blooms.

KING EDWARD — Deep rich crimson; a strong and beautiful color. Does not fade or scorch.

Lavender FLORENCE NIGHTINGALE—A soft, clear, rich lavender, enlivened by a faint sheen of rose-pink.

HAWLMARK—There is nothing quite so pure in lavender as this splendid novelty. The color is difficult to describe accurately, as it is more pure in tone than what may be called the French gray-lavenders, being more a sky-gray. It is, however, a true clear light lavender. The flowers are of the largest size; easily the best of its class.

Maroon HAWLMARK — A large, well-waved flower of a rich reddish maroon color with a glistening sheen resembling polished mahogany. A remarkably strong grower, blooming profusely for a long time. The magnificent flowers are gracefully carried on very long stems. They are usually borne in fours.

WARRIOR—The color is a rich reddish maroon flushed with bronze. Lovers of dark shades will appreciate this fine color. A strong grower and free bloomer.

Orange HELEN LEWIS—The orange-rose wings roll and fold; the standard is reflexed, showing the distinctly fluted effect, and is of an intense rich crimson-orange. The blooms are truly of a gigantic size—the ruffled standard measuring two inches across.

TANGERINE—This is the last word in orange colored Sweet Peas. Deep orange, almost approaching the color of a tangerine-orange. Flowers of great size, beautifully waved and well placed on the long stout stems.

THOMAS STEVENSON, IMP. Intense flaming orange-scarlet standard with wings of rosy carmine shaded orange. A magnificent variety.

Pink CARESS—This is a particularly dainty and attractive variety—one of the most pleasing Sweet Peas we know. The immense well-formed flowers are beautifully frilled and usually produced in fours on long stems. The color is a beautiful shade of soft, rich shell-pink, deeply toned and suffused cream-buff.

DAISYBUD—The color of the flowers is a harmonious combination of apple-blossom tints with a suggestion of cream-pink. The texture of the flowers is substantial but dainty.

HAWLMARK—This most beautiful Sweet Pea is unsurpassed for either exhibition or general cutting purposes. The color is a most beautiful shade of rich rose-pink, deeply flushed and shaded with salmon. The wings are bright rose-pink, whereas the standard is somewhat lighter in color and slightly toned down with salmon. Large, well-waved blooms, usually borne in fours.

MARGARET ATLEE—A rich glowing pink on cream ground, softly suffused with salmon in the standard and pinkish rose or salmon wings. The flowers are large, beautifully frilled or waved and many of them double.

Purple ROYAL PURPLE—The color is a rich, royal purple, the younger flowers having a slightly softer color tone. Best purple yet introduced.

Rose DECORATOR — Rich rose overlaid with terracotta, intensifying to deep bright orange at the base of the wings.

GEORGE HERBERT—The flowers are a most magnificent rich, rosy carmine. The blooms are large, well waved, and carried three or four on a strong stem.

SPARKLER—A great flower for cutting and exhibition; of largest size. The color is a charming combination of rose and cream, the standard being bright rose and the wings are a lively shade of creamy primrose lightly suffused soft rose. A most vigorous grower; the beautifully waved flowers are borne four on a stem in the greatest profusion.

Salmon BARBARA — A superb salmon-colored self that makes a telling bunch either for exhibition or table decoration. Requires shading against strong sun.

Scarlet MRS. C. P. TOMLIN—This is now a leader in the scarlet class. Remarkable for its richness and substance. The color is scarlet with just a touch of fiery red in it. The flowers are of large size and always of the most refined well-waved Spencer form.

VERMILLION BRILLIANT—The standard and wings are of intense pure scarlet. The bold flowers are of largest size and are almost sun-proof.

Striped AURORA—The color is white, artistically flaked rich orange-scarlet. An Australian variety introduced to America by Burpee.

SENATOR—The color is a varying combination of deep claret and chocolate, striped and flaked on light heliotrope ground.

White CONSTANCE HINTON — A black seeded white Spencer of large size and splendid form and substance. Flowers open blush but change to pure white.

KING WHITE—Remarkable for the glistening purity of the whiteness and the perfect finish of the flower. Of truly gigantic proportions. Four flowers on a stem.

All of the foregoing 30 varieties of choice Spencer Sweet Peas. Pkt., 10c; oz., 40c; 2 oz., 75c; ¼ lb., \$1.25. 6 packages, any assortment, 50c.

SELECTED SPENCERS

All of the following seven varieties of Selected Spencer Sweet Peas. Pkt., 15c, or eight packages any assortment, \$1.00; oz., 75c; 2 oz., \$1.25; ¼ lb., \$2.25.

Cerise HOPE—Undoubtedly the finest light cerise self. Hope is certain to become one of the most popular varieties. The color has also been described as soft rose. A vigorous grower, with flowers of great size, freely borne in fours.

Crimson ROSY MORN—The color is a pleasing shade of rose with crimson-scarlet standard. The flowers are usually borne in threes or fours on stiff, long stems.

Lilac ELEGANCE — Delicate and beautiful in color, robust and free in growth and habit, this charming new Sweet Pea is destined to become a general favorite with all growers. The flowers, of immense size, are borne freely on four-flowered sprays. The color is bluish-lilac, or white faintly suffused with a pinkish lilac which is most artistic and altogether charming.

Pink GIANT ATTRACTION — The large shell-pink blooms are magnificent in every way. They are clear in color, of mammoth size, exceptionally fine form, and heavy substance. Strong and free blooming.

PEARL—Is a beautiful shade of clear-pearly pink. The flowers are very large, much waved and well placed. The vines are of vigorous growth and habit; a most profuse and continuous bloomer. The bunch effect of the flowers when cut is exquisite. PINK PEARL will surely become one of the most popular of the newer varieties.

SWEET PEAS—Continued

Scarlet ROYAL SCOT—A true scarlet, far ahead of all others and bearing no resemblance whatever to the so-called scarlets previously introduced. The plant is very strong growing, and produces freely four-flowered stems, all nicely placed; of finest form and beautifully waved.

White IMPROVED SNOWSTORM—This is by far the finest of all white winter flowering varieties. The flowers are extra large, of fine form, with a magnificent and boldly waved standard. A vigorous grower, with enormous flowers which are invariably borne in fours on very long stems.

All of the foregoing seven varieties of Selected Spencer Sweet Peas: Pkt., 15c, or eight packages, any assortment, \$1.00; oz., 75c; 2 oz., \$1.25; ¼ lb., \$2.25.

SPECIAL SELECTION

The following six varieties of specially selected Spencer Sweet Peas. Pkt., 20c; any six your selection, \$1.00; oz., \$1.25; 2 oz., \$2.25; ¼ lb., \$4.25.

Picture The flowers are simply enormous and no other variety measures as much across the standard as Picture. The color is a blend of cream and pink shades altogether different from the ordinary pale cream-pink, and having a deeper flush of color on the wings, which is particularly effective. This pink shade is brought out by the creamy flush in the center of the standard. Picture is a most vigorous grower that will withstand adverse weather conditions particularly well. Needless to say, it is a most floriferous variety. The individual flowers are exquisitely arranged on the long and strong stems, and there are never less than four flowers on a stem.

Glitters It is giving this novelty scant praise when we say it is a "great flower." No variety we know of approaches Glitters in richness, brightness, and live fire effect. The standard is a bright, fiery orange, and the wings are deep orange. The enormous flowers are of substantial texture, and hold up well after cutting. The flowers are artistically placed usually in fours, on a long and strong stem. Glitters is a strong and vigorous grower, with healthy, deep green foliage, blooming profusely and continuously.

Burpee's Giant White "The greatest and most perfect white Sweet Pea in existence." So said a Sweet Pea expert after carefully comparing this new Giant White with the best existing white varieties. Constance Hinton has for many years been the leader in black-seeded white, but it must now give up its place to this wonderful novelty.

Giant White is well and truly named. It is gigantic in size, exquisite in form, and pure in color. It is almost impossible to imagine anything more exquisite than this new variety. Giant White is a seedling raised by Mr. A. G. Stark, of Great Ryburgh, Norfolk, England. The grower reports that this pea has been thoroughly tested and it well deserves the description given.

Burpee's Floradale Floradale Purple is a great and decided advance in its color class. It is an outstanding novelty that has "come to stay." The color is a rich warm shade of rosy purple, considerably brighter than that old favorite, Royal Purple, and just a trifle lighter. The standard has a decided lustrous sheen, giving the entire flower a shining brightness quite distinct from other Sweet Peas of similar shades. The younger flowers are still a little lighter in color, which change as they age. Vigorous and strong in habit, the flowers are correspondingly large

and usually borne in fours on very long stems. In shape, size, graceful arrangement on the stems, free-blooming character, and sturdy growth, Floradale Purple has everything to insure its popularity.

Mrs. Kerr Mrs. Kerr has all the desirable qualities which go to make up a perfect flower. In addition to its unique and dainty color, the plant is of most vigorous habit and extremely floriferous. The flowers, of immense size and exquisite shape, are a most pleasing shade of rich salmon overlaid or suffused with orange. Mrs. Kerr produces flowers which are bold in the extreme; the standard is broad, deep, and charmingly waved; the wings are well placed, as are also the three, or more often four, flowers on their long stiff stems. It is impossible to fully describe the great beauty of this lovely flower, which we feel convinced will become one of the most popular of the early flowering type.

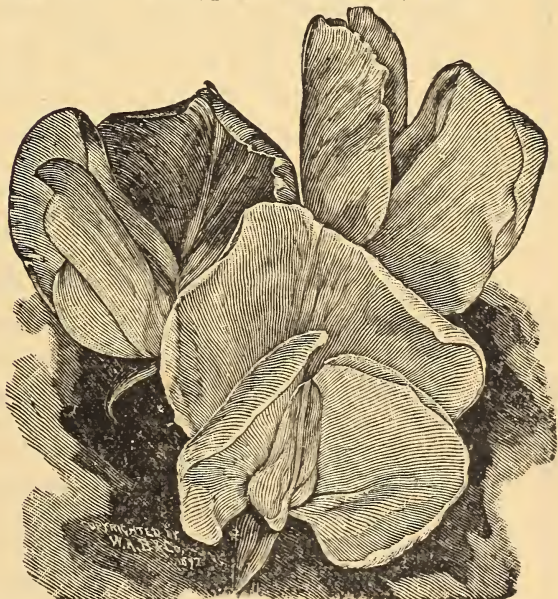
Flamingo This is a distinct and charming variety. The flowers are truly enormous in size, produced in threes or fours on very long, stiff stems. The broad and well-waved standard is light orange, with a suffusion of bright salmon, and the wings are a delicate shade of orange pink. A bunch of FLAMINGO is of such rare and unique beauty that it is almost impossible to find words to describe it properly. It is a most charming combination of colors which blend into a general effect of bright, light orange. The texture of the flowers is substantial. FLAMINGO is a fine grower, with strong stems and rich green foliage, and, above all, it produces its magnificent sprays in great profusion.

The foregoing 6 varieties of specially selected Spences Sweet Peas. Pkt., 20c; any six your selection, \$1.00; oz., \$1.25; 2 oz., \$2.25; ¼ lb., \$4.25.

MIXED SPENCERS

If one is growing a quantity of Sweet Peas, straight varieties are certainly beautiful, but when a short row is grown we recommend sowing mixed seed. For this reason we are always very careful regarding our mixtures. In fact, they are just looked after in the same painstaking manner that our named varieties are.

OUR CLOVER MIXTURE is highly dependable, and with proper care should give very satisfactory results. Pkt., 10c; oz., 30c; 2 oz., 50c; ¼ lb., 80c; ½ lb., \$1.50; 1 lb., \$2.75.



Grandiflora Type

Continued on Page 47.

Burpee's Sweet Pea Novelties, 1924

MISS SPOKANE

A New and Outstanding Bright Orange Sweet Pea

This wonderful new Burpee Sweet Pea was given the name "Miss Spokane" by special request of the Mayor of the City of Spokane, The Chamber of Commerce of Spokane, the Advertising Club of Spokane, and the Florists' Club of Spokane, Washington. Miss Spokane was awarded a Certificate of Merit at The International Flower Show, New York, March, 1922, and at the National Flower Show at Indianapolis, March, 1922. Whenever exhibited, it was one of the "feature" bunches, always drawing special attention on account of its unusual color, immense size, length of stem, and remarkably fine form. The standard is peach-red, the wings bright scarlet, blending into a bunch effect of rich orange-scarlet. The color is most appealing, either by day or under artificial light.

Miss Spokane is an "easy doer" of perfect form, with immense flowers well placed and freely produced in threes and fours. The habit is vigorous and the color always true, even in mid-winter. Packet (15 seeds), 25c.

QUAKER LADY

Magnificent Flowers of Light Lobelia-Violet

Quaker Lady is a lavender of great distinction and decided merit. Quaker Lady is a light Lobelia-violet approaching light Chinese-violet. The bunch effect of this fine Burpee novelty is a clear rich lavender. The younger flowers carry a slight cast of rose in the standard, but when fully open this tinge disappears altogether. The vines are most free-flowering and the large blooms are artistically arranged in fours on long and heavy stems. Quaker Lady was awarded a Certificate of Merit at the International Flower Show, New York, March, 1922, and at the National Flower Show held at Indianapolis, March, 1922. Packet (15 seeds), 25c.

KING TUT

A Charming Pastel Shade of Light Rose-Pink

The flowers of King Tut are very large and they are borne on a stem of great length. The vines are vigorous and extremely free-flowering. The well-waved standard is a pleasing shade of rich rose-pink and the wings are slightly lighter in shade. The reverse or back of the standard is heavily flushed with rose-pink, the ground color being white. The bunch effect is a charming pastel shade of light rose-pink. The color as well as the size of the blooms and their well-waved character make King Tut not only distinct but quite outstanding. Awarded a Certificate of Merit at the International Flower Show, New York, March, 1923. Packet (15 seeds), 25c.

SWEET PEAS—Continued.

All varieties of Grandiflora Sweet Peas: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; lb., \$1.75.

Blue **BRILLIANT BLUE**—As its name implies, this variety is very striking and inviting on account of its bright, attractive color. Very popular.

LORD NELSON—A brilliant dark navy blue with tips of wings a lighter blue. Giant flowers, slightly hooded.

Lavender **COUNTRESS OF RADNOR**—Self-colored in a very distinct and beautiful shade of lavender.

LADY GRISEL HAMILTON—A large soft lavender, tinted mauve; similar to Countess of Radnor, but nearer blue; hooded form. One of the best.

Maroon **BLACK KNIGHT**—Glossy deep maroon, one of the darkest; medium size, open form.

OTHELLO—A very dark maroon, practically self colored with almost black veining. Large size, hooded form, very attractive.

Pink **JANET SCOTT**—A clear deep, but bright pink; the wings stand upright and are curled, giving an unusual but very attractive appearance.

LOVELY—The most beautiful shades of soft shell-pink, changing to very light rose at the outer edges. Grand flowers of large size.

PRIMA DONNA—One of the very best of the hooded pink grandiflora varieties. The flowers are of good size, clear soft shade; self-colored. The vines are of vigorous growth, often with three or four flowers on a stem.

Red **KING EDWARD VII.**—Bright red or crimson scarlet; the flowers are of the largest size and nearly always borne three on a stem.

Scarlet **QUEEN ALEXANDRIA**—This is a very showy and attractive, free-blooming variety. Color deep scarlet; large flowers.

Striped and Variegated **AMERICA**—Bright red on a silvery white ground; showy.

White **DOROTHY ECKFORD**—Pronounced by Sweet Pea experts to be the grandest pure white yet seen of the grandiflora type. Grows an enormous mass of blooms.

EMILY HENDERSON—A bold, well formed, clear white flower. Wings broad and well expanded. An early and wonderfully free and persistent bloomer.

All varieties of the foregoing Grandiflora Sweet Peas: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; lb., \$1.75.

MIXED GRANDIFLORAS

If one is growing a quantity of Sweet Peas; straight varieties are certainly beautiful, but where a short row is grown we recommend sowing mixed seed. For this reason we are always very careful regarding our mixtures. In fact, they are just looked after in the same painstaking manner that our named varieties are.

OUR CLOVER LEAF MIXTURE is blended in the proper proportions and good seed only is used. Therefore, it is highly dependable, and with proper care should give very satisfactory results. Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 90c; lb., \$1.50.

VINES FROM SEEDS

BALLOON VINE (LOVE-IN-A-PUFF) (A)—A rapid growing annual climber; succeeds best in light soil and warm situation; flowers white; seed vessels like minature balloons. Pkt., 5c; oz., 40c.

BEANS—Scarlet Runners—A great favorite, not only as an ornamental climber but for the delicious edible beans which succeed the bright scarlet sprays of pea-shaped blossoms. Pkt., 5c; oz., 10c; ¼ lb., 20c; ½ lb., 30c; lb., 50c.

BEAN HYACINTH (Australian Pea Vine), (Dolichos) (A)—This really beautiful climbing plant is of quick growth; foliage is handsome and the clustered spikes of beautiful purple and white flowers are borne in great profusion. The shining purple seed-pods are also very ornamental. Tender annual, growing six to eight feet. Seed should be sown where plants are desired, in as warm and dry a spot as possible. Mixed, pkt., 5c; oz., 25c.

BOSTON OR JAPANESE IVY (Ampelopsis Veitchii)—A rapid creeper with lovely green foliage which turns red in fall. Excellent for covering walls, outhouses, etc. Height 50 feet. Pkt., 5c; oz., 50c.

CANARY BIRD VINE (P)—A beautiful climber; flowers a bright golden yellow, bearing a fanciful resemblance to birds with expanded wings. Pkt., 5c.

CYPRESS VINE OR IPOMOEA QUAMOCLIT (A)—A climber of rapid growth, having handsome fern-like foliage and a profusion of bright, attractive flowers. Mixed, pkt., 5c; oz., 25c.

COBOEA SCANDENS (A)—One of the hardiest and most rapid growing of the annual climbers. It climbs thirty feet in a season. The flowers are bell shaped. Very prolific and perfectly hardy. The vine is always clean of insects. Mixed, pkt., 10c.

GOURD (Cucurbita) (A)—A very extensive genus of trailing annuals with curiously shaped yellow fruit, commonly known as Ornamental Gourds. The vines are of easy culture and make a rapid growth, so are much used for covering old fences, trellises, stumps, etc. The foliage is ornamental, and the markings of some of the fruit extraordinary. Do not plant the seed till danger of frost is over, and select light, rich soil and a sunny situation. Water freely. Ten to twenty feet high. Mixed, pkt., 5c; oz., 35c.

JAPANESE KUDZU VINE (A)—The Kudzu vine comes from Japan, the land so productive of curious and ornamental flowers. It is a beautiful climber, remarkable for its great vigor of growth and its handsome flowers. The blossoms are large and in panicles somewhat like the Wistaria, but larger in size and with better clusters. The color is a pleasing shade of purple. The foliage is luxuriant. The vine is extremely rapid and dense in growth, perfectly hardy, increasing in size and beauty year after year; fine for arbors, verandas, etc. Pkt., 10c.

JAPANESE HOP (Humulus) (A)—Variegated Japanese Hop. A charming climber, attaining a growth of 20 to 25 feet in a few weeks. The leaves (6 to 7 inches across) are beautifully marked and variegated with white yellowish green and dark green. Not injured by insects or by heat, and the vine retains its beauty until frost. Hardy, the roots living over winter, though it is not a true perennial. Pkt., 10c.

MOON FLOWER, OR IPOMOEA, MEXICANA GRANDIFLORA (A)—Rapid growing climber, belonging to the Morning Glory family. The flowers are large, waxy white and very showy. Pkt., 10c.

MORNING GLORIES

A handsome showy climber of easy culture and suitable for covering arbors, windows, trellises, old stumps, etc., if support be given the vines. Hardy. Seed is usually sown outdoors early in spring in row where plants are to remain. Well pulverized soil should be used and the seed covered one-half inch deep; thin four to six inches apart. If very early blooming is desired, seed may be started indoors and transplanted. Give some support such as strings or cord to the vines as soon as they begin to run and they will often exceed ten feet in height before the season is over.

MORNING GLORY (A) (*Convolvulus Major Ipomoea Purpurea*)—Tall, fine mixed, a great variety of colors of the popular old-fashioned sorts. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c.

GIANT JAPANESE (Imperials) (A)—The flowers of this variety are of largest size, often three inches or more across; some are brilliant red or rich blue, others are equally brilliant, with broad margins of clear white; some are striped or dotted with blue or red on white or lemon yellow ground, others are clouded with blue and red. The foliage in some plants comes plain green, in others it is mottled with white and shades of yellow or yellowish green. Seed black, larger than other varieties of Morning Glory. Pkt., 10c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00.

SMILAX (P)—Charming tender, perennial climber for greenhouse or window gardens. The foliage and stems are of a pleasing light green; very graceful; excellent for decoration. Pkt., 10c.

VINES FROM ROOTS

CINNAMON VINE—This climber is appropriately called Cinnamon Vine. Very hardy, the stem dying down every autumn, but growing again so rapidly as to cover completely any trellis or arbor early in the season. With its beautiful heart-shaped leaves and clusters of delicate white flowers, and most delicious cinnamon odor, is most desirable climber. Each, 15c; 2 for 30c; ½ doz., 75c. Postpaid, doz., \$1.25.

HOPS—Are the most rapid growers of any vine coming from the roots each spring. Their rapid growth and large broad leaves cover a summer. Postpaid, each, 10c; doz., 75c; 50, porch before the arrival of the hot days of the \$3.00; 100, \$5.00.

MADERIA VINE—A beautiful rapid climber, bearing graceful racemes of fragrant white flowers; very pretty and useful. Each, 15c; 2 for 30c; ½ doz., 75c; doz., \$1.25.

Bulbs

SUMMER FLOWERING

There is nothing in floriculture that will give greater satisfaction or produce such grand results as this class of bulbs, which includes some of our showiest garden flowers. They are of the easiest culture. Planted in spring in good garden soil, they flower with great certainty during summer and fall. The hardy sorts may remain in the ground over winter, but tender sorts should be taken up after the foliage dries in the fall and the bulbs stored away in a cool place until planting time in the spring.

CANNAS

Cannas should be planted in good, rich garden soil, mixed with half of old rotten stable manure by the end of May, when danger from frost is past. Water sparingly for first two weeks after planting. When growing freely

water liberally. They are quick growers and bloom continuously until frost. Inexpensive, these charming ornamental plants produce rich tropical effects that cannot be excelled, and they are equally valuable for the beauty of their bloom. In straight or assorted lots.

All 20c Cannas—½ doz., \$1.10; doz., \$2.00.
All 25c Cannas—½ doz., \$1.35; doz., \$2.50.
All 30c Cannas—½ doz., \$1.65; doz., \$3.00.
All 35c Canas—½ doz., \$2.00; doz., \$3.50.

Orange Flowers, Green Foliage

ORANGE BEDDER—Particularly attractive bright orange, with just enough scarlet suffusion to intensify the whole to a dazzling mass. Undoubtedly the best orange in existence. Each 20c.

PANAMA—The color and markings of this splendid Canna are unusual; the rich orange-red face of the petals is bordered with a broad edge of golden-yellow, the florets are large and produces very freely. Height, 3 feet. Each, 20c.

Pink Flowers, Green Foliage

HUNGARIA—The ideal pink bedding Canna; flowers large, in good sized trusses, produced early, freely and continuously, in color not unlike that of the Paul Neyron Rose. It possesses a softness and refinement not found in any other. Height 3 to 3½ feet. Each, 30c.

MORNING GLOW—Foliage an olive-green striped and veined with brown. Flowers soft shell pink and orange-red center. Four feet. Each, 30c.

Red Flowers, Green Foliage

FANAL—Flowers intense brilliant fiery-red, broad petals. Foliage green, bordered brown. A strong and vigorous grower. Free early blooming. Height 3 feet. Each, 25c.

DRAGON—A remarkably rich color, best described as deep ox-blood. Robust and free blooming. Height, 3 feet. Each, 25c.

METEOR—A magnificent bedding variety of strong, robust habit, with green foliage and enormous trusses of large, bright blood-red flowers freely produced well above the foliage. Height, 5 feet. Each, 25c.

Spotted Flowers, Green Foliage

COUNSELL W. VELLNAGLE—Light lemon-yellow, light brown blotched and striped; large flower, bluish-green foliage. Height, 4 feet. Each, 20c.

UHLBERG—The flowers are soft rosy carmine with creamy yellow throats and crimped edges of pale yellow. Height 3 feet. Each, 25c.

White Flowers, Green Foliage

MAROS—Very free flowering, creamy white; one of the best. Each, 30c.

Yellow Flowers, Green Foliage

BUTTERCUP—Bright buttercup-yellow. Each 20c.

YELLOW KING HUMBERT—Deep, rich yellow, spotted with bright red, 3½ feet. Each, 25c.

Red Flowers, Bronze Foliage

KING HUMBERT—In this grand new Italian Canna we have a combination of the highest type of flower with the finest bronze foliage. Its flowers, which under ordinary cultivation will measure six inches in diameter, and which are produced in heavy trusses of gigantic size, are of a brilliant orange-scarlet, with bright

red markings, while the foliage is broad and massive and of a rich coppery bronze with brownish-green markings. Bold and effective. Makes a gorgeous effect when planted in mass. Height, 5 feet. Each, 30c.

BRANDYWINE—Luxuriant dark bronze foliage crowned by heavy trusses of rich red flowers. Each bloom is beautifully dappled with deep crimson, and the lower petals are sometimes edged with bright gold. Height 4 feet. Each, 23c.

EGANDALE—A fine, bronze-leaved variety; cherry red flowers, borne well above the foliage; very handsome. Height, 4 feet. Price each, 30c.

Scarlet Flowers, Bronze Foliage

SUPERB—Clean bright orange scarlet with bronze foliage. Five feet. Each, 20c.

WINTZER'S COLOSSAL—Five feet. Without doubt the largest-flowered Canna to date, as the average flowers more than cover a man's hat. The color is a strikingly vivid scarlet that retains its brilliancy. Each, 25c.

FOUR SPECIAL CANNAS

CITY OF PORTLAND—This is the best pink Canna in existence. The flowers are of largest size, borne on heavy trusses, and bloom continuously. The color is a glowing shade of pink, much brighter and clearer than any other pink variety. It is a profuse bloomer and one of the best varieties of bedding. The foliage is substantial and strong, of rich green color and free from defects. Height $3\frac{1}{2}$ feet. Each, 35c.

EUREKA—A free bloomer and its great trusses of perfectly formed, creamy white flowers stand nicely above the dense green foliage on stiff, upright stems. Each, 35c.

FIREBIRD—This is the finest Canna ever introduced, the size and glory of its blossoms are almost incredible. Flowers of the most intense cardinal scarlet, seven inches across the great wide petals flaming out like a torch. Substance good and petals stand out flat, rarely rolling up as do so many of the large sorts. Blooms very early and very freely. Leaves rich green; height four feet. Each, 35c.

PRESIDENT—A gorgeous variety producing immense trusses of bright red flowers in great profusion. Each, 35c.

All 20c Cannas, $\frac{1}{2}$ doz., \$1.10; doz., \$2.00.

All 25c Cannas, $\frac{1}{2}$ doz., \$1.35; doz., \$2.50.

All 30c Cannas, $\frac{1}{2}$ doz., \$1.65; doz., \$3.00.

All 35c Cannas, $\frac{1}{2}$ doz., \$2.00; doz., \$3.50.

DAHLIAS

The Dahlia is one of the showiest of all autumn flowers. Commencing to flower in July, they are a perfect blaze of bloom until stopped by frost. Especially fine for cut flowers. They have been greatly improved and are growing in favor from year to year. The following selections have been made with the greatest care, and every one will be found to possess true merit, and with proper care and conditions will amply repay the care and attention that has been given them.

Special prices on all Dahlias, your assortment, postpaid.

All 25c Dahlias, $\frac{1}{2}$ doz., \$1.35; doz., \$2.40.

All 30c Dahlias, $\frac{1}{2}$ doz., \$1.60; doz., \$3.00.

All 35c Dahlias, $\frac{1}{2}$ doz., \$1.85; doz., \$3.50.

All 40c Dahlias, $\frac{1}{2}$ doz., \$2.00; doz., \$3.75.

All 50c Dahlias, $\frac{1}{2}$ doz., \$2.50; doz., \$4.50.

All 60c Dahlias, $\frac{1}{2}$ doz., \$3.00; doz., \$5.50.

All 75c Dahlias, $\frac{1}{2}$ doz., \$3.75; doz., \$6.50.

CACTUS



This type is particularly valued on account of the fact that the flowers will keep in good condition longer after cutting than those of any other type.

One each of these twelve varieties of fine Cactus Dahlias, \$5.00 postpaid. If bought singly price would be \$6.25.

Amber PIERROT. A unique and striking color, and of unusual grace, being composed of very long, narrow tubular petals, which are of a deep amber color, usually showing white tips, but even when it comes a self color without these tips it possesses an individual refinement different from all other sorts. A wonderful exhibition flower and a splendid garden variety. Each, 50c.

Cream J. EDWIN WATKIS. A dainty well-formed flower of medium fine for cutting on long stems, pale cream at centre, passing to lemon yellow at tips. Each, 50c.

Maroon FERNAND OLIVET. Remarkably free flowering on stiff wiry stems; brilliant maroon with scarlet shadings, the centre almost black. Each, 35c.

PICOTEE—Entirely distinct from all other Cactus varieties. While the flowers are not of unusual size, measuring about 5 inches in diameter, they are of splendid form and graceful appearance. The color of the petals is a rich, luminous crimson-carmine with the reverse of a silvery white color, the petals being fluted on the ends; this reverse side presents itself in such a manner so as to give the flowers the appearance of being variegated or tipped with white. Each, 60c.

Pink CRYSTAL—A great exhibition flower of large size and splendid form; long twisted incurved tubular petals of a tender silvery pink, which passes gradually toward the center to a soft ivory-white. Each, 60c.

Purple MARATHON. A brilliant rich purple illuminated with bright shadings. Each, 60c.

Red F. W. FELLOWS. One of the very best Cactus varieties ever raised, with flowers of unusual size for the long narrow-petaled type of which this is one of the finest representatives. In color it is an intense coral-red with deeper suffusion at the centre; no collection of Dahlias is complete without it. Each, 60c.

CACTUS—Continued.

Rose MARGUERITE BOUCHON. One of the most beautiful Cactus Dahlias yet introduced; it is perfect in form, of good size, in color a charming shade of brilliant yet soft rose, with a large white centre and distinctly defined white tips. Each, 75c.

Scarlet MRS. HENRY R. WIRTH—Of true Cactus form and one of the earliest and free-blooming varieties in the collection; color a most intense brilliant scarlet. Each, 60c.

White RHEINKOENIG—An ideal white variety of splendid form, and borne on long stiff stems held well above the foliage, of great substance, lasting well when cut. Each, 40c.

Yellow SUCCESS—A fine pure yellow. Each 35c.

GOLIATH. Ground color yellow, suffused and tinted with reddish-salmon. Each, 40c.

One each of these twelve Cactus Dahlias, \$4.50.

COLLARETTE

COLLARETTE—The Collarette Dahlias differ from all other types by having a distinct and attractive collar which appears in the form of irregularly arranged petals of a distinct color between center and the outer petals. Collarette Dahlias have become immensely popular within recent years and this is not to be wondered at when we consider their striking beauty and their usefulness for all kinds of decoration. It is the contrast of colors found in these flowers which never fails to attract attention.

AMI NONIN—Dark crimson-carmine, collar white suffused rose; very large.

CARL BECHSTEDT—Brilliant oriental-red with yellow collar.

DAINTY—Soft rose, deepening to carmine center, lemon-yellow collar.

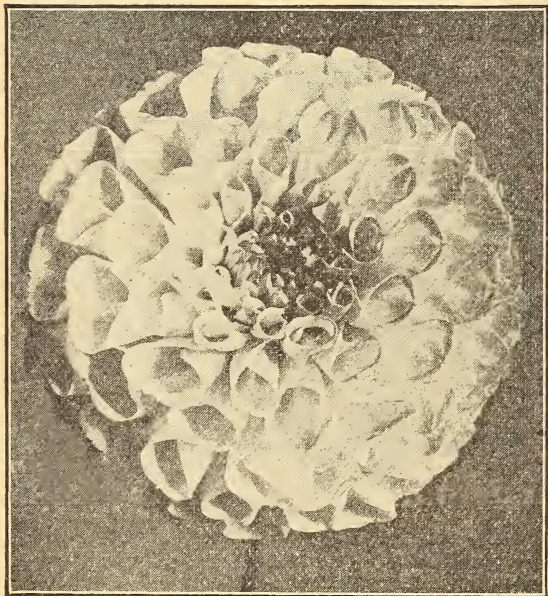
DIadem—Very large, brilliant carmine-rose, collar white, with light carmine markings.

EXPOSITION de LYON—Bright garnet, yellow collar.

ROSETTE—Giant size, velvety cerise suffused white, white collar.

Any of the above choice varieties 30c each.

A collection of one each of the 6 varieties, \$1.50, postpaid.



Decorative Dahlia

DECORATIVE

The Decorative Dahlias are an intermediate form between the Show and Cactus types. Many beautiful varieties have been introduced, some with flat petals, others reflexed, incurved or curiously twisted; but nearly all are without formality or stiffness, and practically all of them are leaders as cut flowers, bearing their large perfectly formed blooms on long, stiff stems, and standing in good condition longer than most kinds; furthermore, they are of easy culture, and seem to adapt themselves to and succeed under the most varied conditions, a combination which assures their continued popularity.

One each of these twelve beautiful decorative Dahlias, \$3.75, postpaid, or \$4.50 worth of Decorative Dahlias for \$3.75.

Crimson CHIEFTAIN. A large flower of good form of a rich crimson-carmine, with golden suffusion; occasionally flowers will appear that are heavily streaked and splashed with canary-yellow. It is very pretty, either in its normal color or when it sports to this fancy form. Each, 50c.

Pink BOUNTIFUL. Flowers 6 to 7 inches in diameter, of perfect form, a graceful flower of a lively solferino-pink with white shadings in the center, very free. Each, 35c.

SYLVIA. Soft, pleasing, mauve-pink, changing to white in center, a fine cut flower. Each, 25c.

Red EASTON. Not extra large, but a variety of brilliant coloring that should be in every collection, good form and remarkable free-flowering habit; in color a brilliant Turkish red. Each, 30c.

JACK ROSE. Brilliant crimson-red similar in shade to the popular "Jack" Rose; perfect for garden decoration and cutting. Each, 25c.

OREGON BEAUTY. Its large size, brilliant color and free-flowering habit makes this a variety that stands out prominently among its neighbors; color, a rich, oriental red with golden sheen and garnet suffusion. Each, 60c.

Rose ETHEL WOLFRUM—Not a large flower, but very dainty and pleasing in its soft color combination, the centre being white while the outer petals are of a delicate mauve-rose; it is very free-flowering on long stiff stems and a gem for cutting. Each, 30c.

Scarlet LYNTHURST — Beautiful vermilion-scarlet flowers. Carried gracefully on long and strong stems. Makes a strong sturdy growth and blooms profusely. Each, 25c.

White MONT BLANC. An early, free, continuous flowering creamy-white on good stiff stems. A most important cut flower variety. Each, 40c.

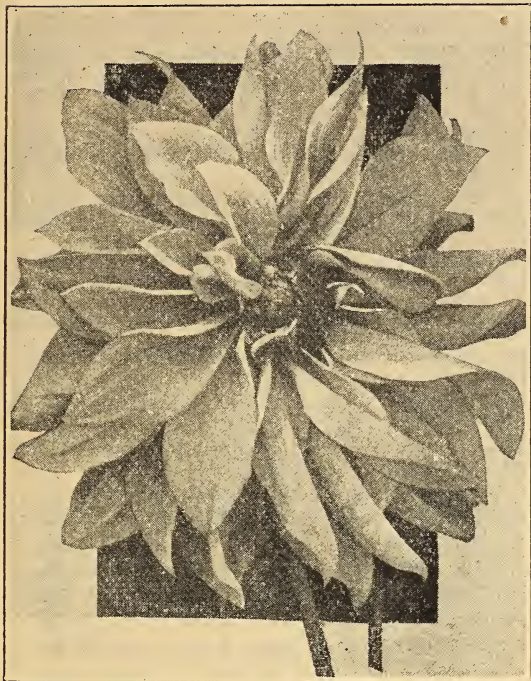
PRINCESS JULIANA—An ideal pure white for all purposes. A splendid cut flower and a good decorator for the garden. It is one of the earliest to flower, and continues in good shape throughout the season. It holds its flowers well above the foliage on stiff, wiry stems. Each, 40c.

Yellow MRS. C. H. BRECK—A splendid all around variety for garden decoration as well as for cutting. Its flowers are all ways of perfect shape, full double to the centre of a soft yellow, deeply suffused with carmine, produced in great profusion on long stiff stems. Each 40c.

MRS. NAT. SLOCOMBE—Splendid large free-flowering, bright yellow, of excellent form. Each, 60c.

One each of these twelve beautiful decorative Dahlias, \$3.75 postpaid; or \$4.50 worth of Decorative Dahlias for \$3.75.

PEONY—FLOWERED



This type of Dahlia has quickly taken first place among all types. The flowers are large and particularly valuable on account of their artistic effect. They are bold usually with broad petals, which in many varieties are greatly curled and twisted. The yellow center of the blooms is quite often completely hidden by the small incurving petals.

EPOCH—Very free-flowering deep purplish-carmine; a splendid flower. Each, 75c.

FRITZIMANN—A brilliant geranium-red, occasionally tipped with white. Each, 35c.

HAMPTON COURT—One of the best; a bold flower of good form, of a bright mauve-pink. Each, 35c.

MME. COISSARD—An artistic graceful flower composed of large incurving shell-like petals of a brilliant carmine-crimson, freely marked, shaded and suffused with white. Each, 50c.

MME. VARD—Deep oriental red with golden disc and markings, a gorgeously-colored effective flower of good size. Each, 50c.

MONDSCHKEIBE—Large canary-yellow, very free flowering and attractive. Each, 50c.

One each of these six Peony-Flowered Dahlias, \$2.50, postpaid.

POMPON

The plants grow into neat little bushes which are covered with small, perfectly ball-shaped Dahlias, measuring up to 2 inches in diameter. The flowers are always double to the very center and in many varieties the petals are curled.

AMBER QUEEN—Rich, clear amber, shaded apricot.

CATHERINE—A well-formed primrose-yellow.

GRETCHEN HEINE—A dainty flower of rose tinted white, each petal heavily tipped with crimson-carmine.



Pompon

KLEINE DOMITEA—Orange-buff, very free.

LITTLE HERMAN—Deep carmine, shaded garnet, tipped white.

SNOWCLAD—A fine double white.

All Pompon Dahlias, 30c each, or ½ dozen, any assortment, \$1.50, postpaid.

SHOW

Show Dahlias are usually of solid color, but in certain varieties the tips of the petals may be of another. They are usually round, ball-shaped, and are always beautiful and compact, desirable for cut flowers.



Show Dahlia

DAHLIAS—Continued.

AMERICAN BEAUTY—Large brilliant clar-et-red. Each, 40c.

CLARA SEATON—One of the finest Show Dahlias; rich golden bronze with nicely quilled petals. Each, 35c.

CUBAN GIANT—Very large ball shaped flowers of a bright maroon, free and early. Each 35c.

DOROTHY PEACOCK—Large perfect shaped flowers of a bright seashell pink color, very early and free. Each, 40c.

DREER'S WHITE—A pure glistening white, a large ball-shaped flower with closely quilled petals, unsurpassed by any other variety in freedom of flowering. Since its introduction in 1909 it has been the premier white show variety at all exhibitions where shown. Each 40c.

DREER'S YELLOW—The best yellow Show Dahlia yet sent out. A good grower, early and profuse bloomer. In general form and make-up the flowers resemble Dreer's White, but they are larger, frequently over seven inches in diameter; these, when fully grown, are perfect balls in shape and are held rigid and erect on long stems. Each, 40c.

MAUDE ADAMS—A beautiful pure white, very effectively overlaid with clear delicate pink. A fine cut flower. Each, 40c.

PEERLESS—Buttercup-yellow with heavy tip of fiery red. Each, 50c.

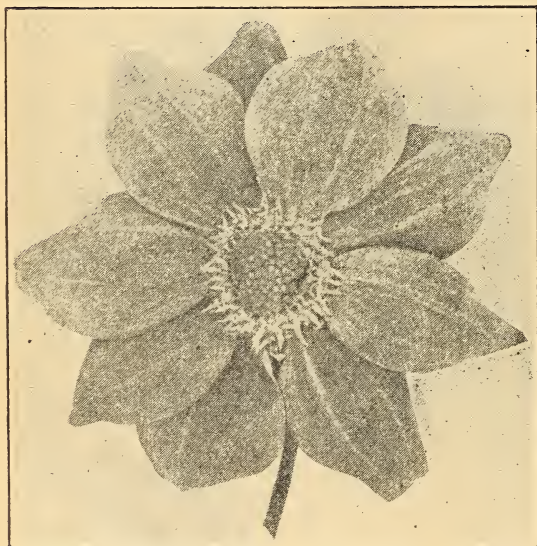
PRINCESS VICTORIA — Primrose-yellow; never produces an imperfect flower; in bloom early and late; long stiff stems; fine for cutting. Each, 30c.

RED HUSSAR—A fine pure cardinal-red. Each, 30c.

STRADELLA—Rich deep purple crimson; very free-flowering; long stems. Each, 50c.

YELLOW DUKE—A splendid primrose-yellow. Each, 30c.

The entire 12 Show Dahlias, \$4.00 postpaid.

NEW CENTURY SINGLE

This giant flowering type of Single Dahlias are now very popular, both for garden decoration and for cutting.

JACK—Brilliant fiery scarlet, the base of the petals overlaid with golden-yellow; very free-flowering. Each, 30c.

POINSETTIA—The name of this variety was suggested by its color and form, which reminds one of the brilliant scarlet Poinsettia which is so extensively grown as a Christmas flower. Each, 30c.

ROSE-PINK CENTURY—Flowers 6 inches and over in diameter, of a clear rose-pink color; a strong grower with long, stiff stems; fine for cutting. Each, 35c.

SNOWFLAKE—Very free-flowering; pure white. The finest single white yet introduced. Each, 35c.

TANGO CENTURY—Cadmium-yellow shaded orange-scarlet. Very distinct and novel. Each, 35c.

TWENTIETH CENTURY—Early in the season an intense rosy crimson, shading gradually to almost white on the edges and a light halo around the disc. As the season advances the flowers become lighter, changing to almost pure white suffused with soft pink. Each, 35c.

The entire ½ dozen Single Dahlias, \$1.65, postpaid.

Special prices on all Dahlias, your assortment, postpaid:

All 25c Dahlias, ½ doz., \$1.35; doz., \$2.40.

All 30c Dahlias, ½ doz., \$1.60; doz., \$3.00.

All 35c Dahlias, ½ doz., \$1.85; doz., \$3.50.

All 40c Dahlias, ½ doz., \$2.00; doz., \$3.75.

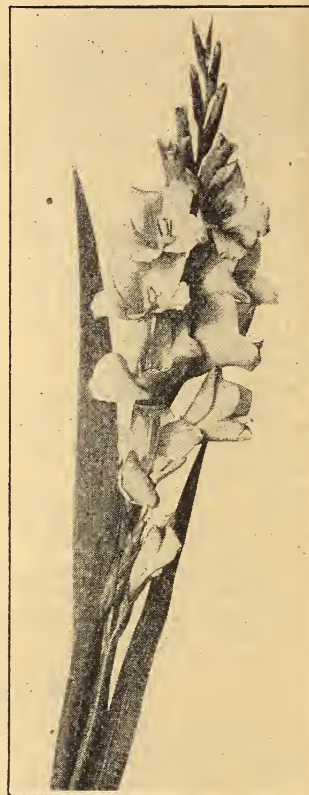
All 50c Dahlias, ½ doz., \$2.50; doz., \$4.50.

All 60c Dahlias, ½ doz., \$3.00; doz., \$5.50.

All 75c Dahlias, ½ doz., \$3.75; doz., \$6.50.

Gladioli

Gladioli are the most satisfactory, desirable and popular of all the garden bulbs. Nothing else of the kind costs so little, grows and blooms so readily in any soil or climate as Gladioli. They thrive and bloom with the least care and attention, and make a display which for brilliancy and beauty of coloring few bulbs can equal and none surpass. Plant any time from March to June.



Special prices postpaid, in straight or assorted lots:

All 60c varieties, 50, \$2.25; 100, \$4.00.

All 75c varieties, 50, \$2.50; 100, \$4.50.

All \$1.00 varieties, 50, \$3.00; 100, \$5.50.

All \$1.10 varieties, 50, \$3.25; 100, \$6.00.

All \$1.25 varieties, 50, \$3.50; 100, \$6.50.

All \$1.50 varieties, 50, \$4.25; 100, \$8.00.

All \$1.75 varieties, 50, \$6.00; 100, \$10.50.

All named varieties of Gladioli are number one bulbs and are not to be compared in quality to the smaller bulbs. These large bulbs cost more, but are well worth it, as they produce longer spikes, thus giving not only more flowers, but larger.

Blue

BARON HULOT—Long, graceful spikes, of good-sized, well-opened flowers, having a rich indigo-blue color. It stands alone as a unique and beautiful shade, and never fails to attract attention. Each, 20c; 1/2 doz., \$1.00; doz., \$1.75.

MR. MARK—Light blue with darker spot. Each, 15c; 1/2 doz., 85c; doz., \$1.50.

Lavender

MARY FENNEL—Beautiful, deep lavender flowers on a tall slender spike. Lower petals penciled with primrose-yellow. Each, 15c; 1/2 doz., 80c; doz., \$1.50.

Maroon

CHRIS—Dark maroon, purplish shaded. 2 for 25c; 1/2 doz., 60c; doz., \$1.10.

GOLIATH—This, as its name implies, produces large flowers, which is very attractive and beautiful and of a very fine dark purplish color. Each, 15c; 1/2 doz. 80c; doz., \$1.50.

Pink

AMERICA—A beautiful soft flesh pink. By far the most vigorous and easily grown Gladiolus known. Strong and healthy with luxuriant dark-green foliage and a freedom of growth and flowering surpassing all others. Spikes two to three feet long, erect with a great number of large spreading blossoms, all facing one way and showing a color, the delicacy and beauty of which it is impossible to describe or reproduce. It is an exquisite, soft lavender pink, very light, almost a tinted white. 4 for 25c; 1/2 doz., 35c; doz., 60c.

PINK PERFECTION—A very fine bright light pink, with large flowers. One of the very best. Each, 20c; 1/2 doz., \$1.00; doz., \$1.75.

PANAMA—An introduction of sterling merit, is a favorite wherever high grade varieties are grown. It is similar to and has all the good qualities of America, but in color is a rich rose-pink. Unquestionably one of the finest. Each, 10c; 1/2 doz., 55c; doz., \$1.00.

Red and Scarlet.

ATTRACTION—Deep, dark, rich crimson, with a very conspicuous large pure white center and throat. At once a most beautiful and attractive sort. 2 for 25c; 1/2 doz., 65c; doz., \$1.25.

GOLDEN WEST—Bright orange red, with some darker stripes. 2 for 25c; 1/2 doz., 65c; doz., \$1.25.

MRS. FRANCIS KING—Of exceptional value for cut flower use. Color is a very pleasant light scarlet, strikingly attractive. Separate flowers often measure 4 to 5 inches across and 5 to 6 flowers are open at one time. 4 for 25c; 1/2 doz., 35c; doz., 60c.

WAR—Deep blood red, very large flowers, one of the best. Strong grower. 2 for 25c; 1/2 doz., 65c; doz., \$1.25.

Spotted

CRACKER JACK—Large flowers, rich, velvety dark-red: throat spotted yellow and dark maroon; beautiful. 4 for 25c; 1/2 doz., 35c; doz., 60c.

HALLEY—The predominating color of these flowers is delicate salmon-pink with a slight roseate tinge, though the lower petals bear a creamy blotch with a stripe of bright red through the center, the whole producing a delightful effect. Each, 10c; 3, 25c; 1/2 doz., 40c; doz., 75c.

MRS. FRANK PENDLETON—The flowers are very large and well-expanded, of a lovely flushed salmon-pink with brilliant carmine, or deep blood-red blotches in the throat, presenting a vivid contrast of orchid-like attractiveness. It is of the Lemoinei type in form and color effect, with a gandavensis stem, so that it takes up water freely and opens up perfectly nearly every flower after being cut and placed in water. 2 for 25c; 1/2 doz., 65c; doz., \$1.25.

MR. THEODORE—Light scarlet, white blotch spotted with scarlet. Very attractive. 2 for 25c; 1/2 doz., 60c; doz., \$1.10.

Violet

DISTINCTION—Dark violet, very tall spike. Each, 15c; 1/2 doz., 80c; doz., \$1.50.

MRS. GEORGE W. MOULTON—Giant violet. red or cerise, many flowers open. Each, 25c; 1/2 doz., \$1.25; doz., \$2.25.

White

AUGUSTA—Pale white, small rose stripes on lower petals. Each, 10c; 3, 25c; 1/2 doz., 40c; doz., 75c.

GLORY OF HOLLAND—Pure white, very fine and showy. 2 for 25c; 1/2 doz., 65c; doz., \$1.25.

LILY LEHMAN—Ivory white lily shaped flowers, very beautiful. 2 for 25c; 1/2 doz., 65c; doz., \$1.25.

PEACE—Flowers are large, of good form, correctly placed on a heavy, straight spike. Beautiful white, with pale lilac feathering on interior petals. 2 for 25c; 1/2 doz., 60c; doz., \$1.10.

Yellow

NIAGARA—Giant Yellow. In color the flowers are of a delightful cream shade with the two lower inside petals or segments blending to canary-yellow. The throat is splashed and tinted with carmine. The flower spike is very erect and stout and is wrapped with broad dark-green foliage. 2 for 25c; 1/2 doz., 60c; doz., \$1.10.

SCHWABEN—A very vigorous grower, also very free flowering. A clear canary yellow shading to sulphury yellow when open. 2 for 25c; 1/2 doz., 60c; doz., \$1.10.

YELLOW HAMMER—A pure yellow with a little red mark in the throat. 2 for 25c; 1/2 doz., 65c; doz., \$1.25.

Special prices, postpaid, in straight or assorted lots:

All 60c varieties, 50, \$2.25; 100, \$4.00.
All 75c varieties, 50, \$2.50; 100, \$4.50.
All \$1.00 varieties, 50, \$3.00; 100, \$5.50.
All \$1.10 varieties, 50, \$3.25; 100, \$6.00.
All \$1.25 varieties, 50, \$3.50; 100, \$6.50.
All \$1.50 varieties, 50, \$4.25; 100, \$8.00.
All \$1.75 varieties, 50, \$6.00; 100, \$10.50.

All named varieties of Gladioli are number one bulbs, measuring 1 1/2 inches and up and are not to be compared in quality to the smaller sized bulbs. These large bulbs cost more, but are well worth it.

Clover Leaf Gladioli Mixtures

CLOVER LEAF MIXTURE—Gladioli mixtures can be purchased at almost any price and under almost any name, and it is a difficult matter for the purchaser to decide which is best. Our advice would be not to purchase

GLADIOLI—Continued.

small bulbs simply because they are quoted cheaper. Difference in cost is far more than compensated for in the better satisfaction obtained by planting the larger bulbs.

This year we are offering our Clover Leaf Mixture in two sized bulbs, the only difference being difference in size, as the mixtures are exactly alike.

No. 1 Bulbs, 1½ inches: ½ doz., 30c; doz., 50c; 50, \$2.00; 100, \$3.75.

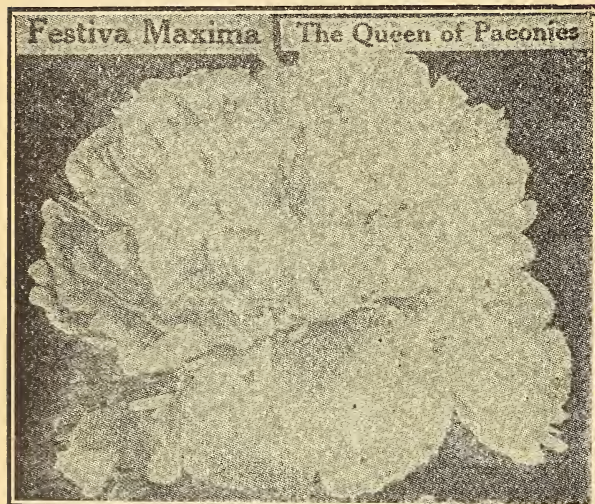
No. 2 Bulbs, 1¼ inches: ½ doz., 25c; doz., 40c; 50, \$1.50; 100, \$2.75.

LILY OF THE VALLEY—One of the most satisfactory and charming spring flowering plants, producing in profusion its delicate bell-shaped delightfully fragrant white flowers. Lillies of the Valley thrive in any common soil, are perfectly hardy, and will succeed in shady situation. 3 for 25c; doz., 90c; 50, \$3.25; 100, \$6.00.



Paeonies

There is no hardy perennial which equals the Paeony in beauty and usefulness. Once planted, the plants and flowers increase in size and beauty with age.



Special prices, postpaid, in straight or assorted lots:

	¼ Doz	½ Doz	Doz
All \$.60 Paeonies.....	\$1.75	\$3.25	\$6.00
All .75 Paeonies.....	2.00	3.75	7.00
All 1.00 Paeonies.....	2.85	5.50	10.00
All 1.25 Paeonies.....	3.50	6.50	12.00
All 1.50 Paeonies.....	4.25	8.00	15.00

LILAC

ASA GRAY—Very large, full imbricated bloom; guard petals salmon-flesh, center of bloom very full and perfectly formed; color delicate lilac plentifully sprinkled with minute dots of deeper lilac. Striking, imposing and beautiful. No Peony produces more bloom year in and year out than does Asa Gray. Fragrant and distinct. Each \$1.00.

FLORAL TREASURE—Large full flowers, pale lilac rose, very fine for cutting. Each, 60c.

LA TULIPE—Medium large. Lilac fading to creamy white with outer guard petals striped

and center petals tipped with carmine. Late. Each, \$1.00.

MONS. JULES ELIE—Pale lilac rose with a silvery reflex. One of the best lilacs. Each, \$1.25.

Pink

ALBERT CROUSE—Large, very full, evenly formed bloom; fresh-pink; center shaded with clear pink. Petalage small and very dense. An unusually high-class Paeony. Each, \$1.25.

EUGENIE VERDIER—Pale hydrangea-pink, collar lighter; center deeper flecked crimson; fragrant; very distinct from Eugene Verdier, with which it is often confused. Each, \$1.25.

MARGUERITE GERARD—Large, compact, semi-rose developing into a crown with stamens. Very pale hydrangea pink, fading to nearly white. Central petal flecked dark carmine. Each, 75c.

MME. CALOT—Very large rose-type. Pale hydrangea-pink, center shading darker; collar tinged silver. Each, \$1.00.

Red and Rose

ALEXANDER DUMAS—Medium size, light, violet-rose. Creamy white collar of narrow petals, mingled with the wide center petals. Each, 75c.

FELIX CROUSE—The ideal of self-colored red Peony, large, globular and compact, an even shade of bright red without trace of any other color; a strong, vigorous grower with long stems, making this variety one of the most important commercial cut-flower sorts. Each, \$1.00.

GOLDEN HARVEST—Medium size, loose bomb, or informal rose-type. Guards pale lilac-rose, center creamy white, developing many wide petals of a peach-blossom pink. Each, 60c.

LIVINGSTONE—Very large compact perfect rose-type. Pale lilac-rose, with silver tips, central petals flecked carmine. Each \$1.50.

MONS. KRELAGE—Large compact, semi-rose type. Dark solferino-red, with silvery tips. Slightly fragrant. Each \$1.00.

OFFICINALIS ROSEA—Beautiful bright rose with globular flowers, blooms with Officinalis Alba and Rubra, producing fine flowers for Decoration Day. Each, \$1.00.

OFFICINALIS RUBRA—Bright scarlet crimson; double and globular. Early. Each, \$1.00.

White

AVALANCHE—Avalanche, in our estimation, is one of the finest Paeonies grown. Large, convex bloom of perfect form; color, milk-white, with cream-colored center; has ruby-colored markings of rare delicacy and beauty on some of its petals. A superb Paeony. None better. Each \$1.00.

COURONNE D'OR—Immense, very full imbricated bell-shaped blooms; color snowy with yellowish reflex with light carmine edges on a few center petals. Grand cut-flower sort. Comes in after all other long-stemmed whites are done. Very late. Each, 75c.

FESTIVA MAXIMA—This truly superb variety, the finest white in cultivation, has for nearly three quarters of a century been the standard by which all other sorts have been judged. A giant in growth. No other variety combines the wonderful purity of color, freedom and earliness of flower handsome foliage as this "Queen of Paeonies." This variety is probably better known throughout the world than any other. Each, 60c.

Special prices, postpaid, in straight or assorted lots:

	¼ Doz	½ Doz	Doz
All \$.60 Paeonies.....	\$1.75	\$3.25	\$6.00
All .75 Paeonies.....	2.00	3.75	7.00
All 1.00 Paeonies.....	2.85	5.50	10.00
All 1.25 Paeonies.....	3.50	6.50	12.00
All 1.50 Paeonies.....	4.25	8.00	15.00

Mixed Colors

These mixed colors are not mixed and sold cheap because of small roots or inferior blooms, but because names and colors have been misplaced. Very highly recommended. Each, 50c; ½ doz., \$2.50; doz., \$4.50.

Tritoma, or "Red-Hot Poker"

TRITOMA PFITZERI—It grows from four to six feet high; the flower-spike is often five feet high, and the flower measures twelve to fifteen inches long by four inches in diameter. They are a dazzling scarlet, lower half of flower tinged with rich orange. A clump makes a striking show. Each, 40c; ½ doz., \$2.25; doz., \$4.25.

PLANTS AND ROOTS—(No Plants or Roots Sent C. O. D.)**PLANTS—FLOWERING—Perennials and Annuals**

Variety	Prices	
	Postpaid Doz.	Postpaid 100
Alyssum	\$0.30	\$2.00
Asters .....	.30	2.00
Daisies .....	.35	2.00
Carnations .....	.35	2.00
Cosmos .....	.35	2.00
Dahlias .....	.35	2.00
Dusty Miller .....	.30	2.00
Geranium, 3-in. pots .....	.25 each	2.50 doz.
Heliotropes .....	.35	2.00
Lobelia .....	.35	2.00

Variety	Prices	
	Postpaid Doz.	Postpaid 100
Marigold	\$0.35	\$2.00
Mignonette .....	.30	2.00
Pansies .....	.60-80	2.50-4.50
Petunia .....	.35	2.00
Salvia .....	.35	2.00
Snapdragons .....	.30	2.00
Stocks .....	.35	2.00
Verbenas .....	.30	2.00
Wallflowers .....	.35	2.00
Zinnias .....	.35	2.00

PLANTS—VEGETABLES

Variety	Postpaid			Not Postpaid	
	Doz.	50	100	500	1000
Brussels Sprouts	\$0.20	\$0.60	\$1.00	\$	\$
CABBAGE—					
Early Jersey Wakefield, transplanted .....	.25	.75	1.00		
Early Jersey Wakefield, not transplanted .....	.20	.50	.75	2.75	5.00
Danish Ball Head, not transplanted .....	.20	.50	.75	2.75	5.00
Red, not transplanted .....	.20	.50	.75		
Copenhagen Market, not transplanted .....	.20	.50	.75	2.75	5.00
CAULIFLOWER—					
Snowball, transplanted .....	.30	1.00	1.50		
Snowball, not transplanted .....	.25	.75	1.00	3.75	7.00
CELERY—					
White Plume, transplanted .....	.25	.75	1.00		
White Plume, not transplanted .....	.20	.50	.75	2.75	5.00
Golden Self-Blanching, transplanted .....	.25	.75	1.00		
Golden Self-Blanching, not transplanted .....	.20	.50	.75	2.75	5.00
Celeriac .....	.25	.75	1.00		
Egg Plant .....	.30	1.00	1.50	4.25	8.00
Parsley .....	.25	1.00	1.25		
PEPPERS—Transplanted—					
Chinese Giant .....	.30	1.00	1.25	3.75	7.00
Ruly King, transplanted .....	.30	1.00	1.25	3.75	7.00
Bull Nose, transplanted .....	.30	1.00	1.25	3.75	7.00
Cayenne, transplanted .....	.30	1.00	1.25	3.75	7.00
Cherry, transplanted .....	.30	1.00	1.25	3.75	7.00
Sage, transplanted .....	.30	1.00	1.25	3.75	7.00
TOMATOES—					
Earliana, transplanted .....	.30	1.00	1.50	4.75	9.00
Earliana, not transplanted .....	.25	.75	1.25	2.75	5.00
Dwarf Champions, transplanted .....	.30	1.00	1.50	4.75	9.00
Dwarf Champion, not transplanted .....	.25	.75	1.00	2.75	5.00
Husk or Ground Cherry, transplanted .....	.30	1.00	1.50		

Roots

ASPARAGS—					
Variety					
Palmetto, 1 year old	\$0.25	\$0.75	\$1.00	\$3.25	\$6.00
Palmetto, 2 years old .....	.40	.85	1.50	5.25	10.00
Palmetto, 3 years old .....	.50	1.50	2.25	7.75	15.00
Hop .....	.85	3.00	5.00		
Horseradish .....	.35	1.00	1.50	5.25	10.00
Mint .....	.75	2.50	4.00		

	Postpaid			Not Postpaid	
	Each	Doz.	50	100	500
Chives, small bunch, postpaid	\$0.15	\$1.25	\$	\$	\$
Rhubarb, 1 year old .....	.15	1.25	3.50	5.00	15.00
Rhubarb, 2 years old .....	.20	1.75	5.00	6.00	20.00

PRICES NOT GUARANTEED, BUT ARE SUBJECT TO CHANGE.

STRAWBERRIES

AROMA—Among the best of the late ripening varieties. Quality the best of any, comes nearer being the true strawberry flavor than all others. Its shipping qualities are of the best.

CLARK'S SEEDLING—This variety originated in our state a seedling of the old popular Wilson variety. Like the Hood River, a near relation, it is unsurpassed as a shipping variety and in some sections very prolific.

GLEN MARY—A bright, handsome, prolific, standard sort, grown the country over and perfectly reliable. Some large growers claim for this the par excellence in strawberries.

GOLD DOLLAR—An extra early variety originating in California. It is very productive and great promises are made for its future place in the strawberry world.

HOOD RIVER—The leading standard shipping variety. Dark red color, uniform size, good

quality, but not heavy in yield. A specialty berry for the grower whose market is somewhat distant.

MAGOON—Of first quality, great productiveness, attractive shape and color; good for canning.

MARSHALL — Produces remarkably large, beautiful fruit, resembling the far-famed Glen Mary.

OREGON—A fadeless, dark red exterior; the deep red color is extended clear to the center of the fruit. Exceptionally fine for canning. Any variety that we offer will fertilize it except Aroma.

SENATOR DUNLAP—Its color is a rich dark red, with glossy finish. It has become a very popular variety, perhaps on account of its uniformity.

ALL OF ABOVE DESCRIBED STRAWBERRIES

Postpaid				By Express—Not Postpaid				
Doz.	25	50	100	200	300	400	500	1000
\$0.30	\$0.50	\$0.85	\$1.50	\$2.25	\$3.25	\$4.00	\$4.75	\$9.00



Everbearing

Progressive

This wonderful ever-bearer has become so well known and has proven such a favorite that it is unnecessary for us to give a long description. As a home garden berry the Progressive fills the bill. The Progressive is a persistent bearer from the time plants are set in the spring until hard freezing, and again is the first to bloom in the following spring, and yields a good crop same time as other varieties. The quality of this berry is most excellent.

Superb

The fruit of Superb is large, glossy, firm and of fine quality, being a strictly fancy variety. It is not so productive and requires more care and attention than the Progressive, but makes up for this by being larger in size, presenting a better appearance, and having a finer flavor. In some sections of the Northern states, Superb gives better results than the Progressive.

Price of both varieties:

Doz., 50c; 25, 80c; 50, \$1.50; 100, \$2.50, postpaid; at purchaser's expense, 200, \$4.50; 300, \$5.75; 400, \$7.00; 500, \$8.00; 1000, \$15.00.

Potatoes

Potatoes can be grown in any soil, provided it is well drained, but, if grown on sandy, rich soil, they will be of better quality than if planted on clay soils. Sod land is most excellent for this crop. It is best to put the manure on one year before the potatoes are to be planted, and in no case raw stable manure should be used, as it is liable to produce scab. In cutting potatoes for planting, do not cut the pieces too small and be sure to have 1 to 3 eyes on each piece planted. The constant use of very small tubers should be avoided, or they are likely to run out. The sets should be planted from 3 to 4 inches deep, according to the time of planting, in rows 3 feet apart and 16 to 18 inches in the rows.

PRICES—Owing to the great uncertainty regarding values we are unable to make definite prices at present, but quote approximately as follows, purchaser paying all carrying charges: Less than 25 lbs., 5c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00. If you are needing a quantity we prefer that you write for prices as these prices are not guaranteed. Unless otherwise advised we will send full value at prices prevailing at time of shipment for money received.

Early

OHIO—A leading early sort, earlier than the Early Rose, but not so productive. Round, short, and thick tubers, smooth and solid; cooks dry and mealy and matures very early.

ROSE—This variety has been a great favorite for many years and many growers still claim that it has never been excelled in quality and productiveness. Potatoes are long in shape, good size and light pink in color at the bud end. They cook mealy and are of the finest flavor.

SIX WEEKS—This is recognized as being one of the very earliest varieties grown, and in addition it is also one of the best yielders of the early varieties. Besides these two very important advantages, it possesses a third, namely: its quality; and quality is the great pivotal point at which we are aiming in the production of all our seeds, plants and roots.

EARLIEST OF ALL—Is a shallow-eyed white skinned variety of vigorous growth. The tubers are smoother and have fewer eyes than most other varieties. While it is a very early potato it is also a good keeper.

Medium

IRISH COBLER—The tubers are round, somewhat flattened with rather deep eyes and are medium to large in size. The skin is smooth, finely netted, and white in color. Flesh white of fine quality and flavor.

Late

NETTED GEM—The hardiest, most vigorous in growth, most productive, and the best in table quality of all potatoes. It has proved to be unequalled for main crop. The vines are

strong, with deep green foliage. In form the tubers are medium long. The eyes are small and there is very little waste in paring. The skin is thin and very smooth with the exception of very small depressions which give it the appearance of being netted and from which it derives its name. The flesh is fine grained and cooks up mealy white. It is very free from scale and one of the very best keepers on the market.

CERTIFIED SEED POTATOES

We have made arrangements with one of the best potato growers in the Inland Empire to handle his crop of certified Red Ohios. This party has been growing seed potatoes for many years and has had certified stock for a number of years.

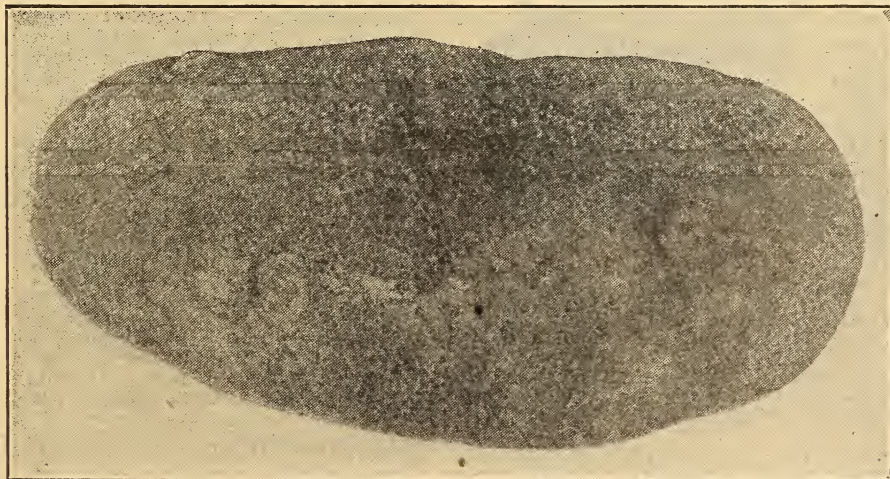
He secured first prize on his Ohios at the Spokane Potato Show.

He secures his own seed each year by carefully selecting individual hills, and then still farther selecting the potatoes in these hills, and in this manner his seed supply is always from the choicest selection of his certified stock.

As each bag will bear the certified tag we can not sell less than a bag of 100 pounds.

Certified stock, \$4.00 per 100 lbs.

Certified stock must not contain any potatoes smaller than two ounces, nor any larger than twelve ounces, and must not contain any irregular shaped ones; therefore it follows that in selecting certified seed there is some rejected on account of their size, and some on account of their shape. We are, therefore, offering these potatoes that can not be put in with the certified stock, but which are a part of the same crop and the same hills, at \$2.00 per 100 lbs.



Netted Gem

Alfalfa or Lucerne

While what is known as the common alfalfa is the most popular and almost exclusively used, still there has been for a number of years other named varieties each claiming to be superior to the common alfalfa. The most widely advertised of these varieties is what is known as Grimm alfalfa. The originator of this variety has the following to say concerning it: "The Grimm alfalfa is much hardier than the ordinary kinds. It not only endures extremely low temperatures, but it can be cut with greater safety late in the fall and will bear more abuse in the way of pasturage than any other plant that has been compared with it until this time. Grimm alfalfa requires less seed per acre because of its large stooling habit, and because the plants are more persistent in establishing themselves. Because of its branch root system it will grow over a hard pan soil, and is adapted to wetter soil than the common alfalfa."

Common Alfalfa, lb., 45c, postpaid.

Grimm Alfalfa, lb., 75c, postpaid.

Write for prices, stating quantity wanted.

Clovers

Great care should be exercised in purchasing grass and clover seeds. This is even more important than with other seeds, for, on account of being perennials, and the land not being cultivated, the farmer has not an opportunity to cultivate and thus destroy any weed seeds that might be sown with grasses and clovers.

Owing to the market changes we cannot quote prices. When ready to buy write us for prices, stating quantity wanted, or if you send money, we will ship seed to cover amount received.

ALSIKE, or SWEDISH (Trifolium Hybrum)

—A perfect hardy variety which is rapidly growing in popular favor. It yields large crops of excellent hay and under favorable conditions may be cut several times during the season. It is also valuable for bees. It is well calculated to resist both drouth and excessive moisture. The hay of this variety is greatly preferred by some to that of Red Clover, for the reason that it is generally finer, brighter and not so dusty, making it better for horses. Lb., 40c, postpaid. Write for prices, stating amount wanted.



Alsike Clover

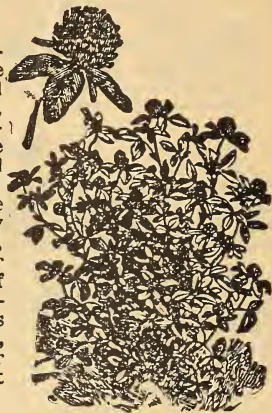
CRIMSON, OR SCARLET (*Trifolium Incarnatum*)—It is a thrifty annual, growing from twenty to thirty inches high, and has a beautiful crimson blossom. It germinates quickly, grows rapidly and stools abundantly. Lb., 35c, postpaid. Write for prices, stating amount wanted.

ESPERETTE, OR SAINFOIN (*Onobrychis Sative*)—A deep rooting, perennial legume. It is rather difficult to establish, as plants are easily killed when young, but when once root-

ed, will live from ten to twenty years. Lb., 35c, postpaid. Write for prices, stating amount wanted.

RED MAMMOTH—Being a rank grower makes it most valuable for fertilizing purposes. Foliage, flowers and stem much darker than common Red Clover; ripens later than the latter, about the time Timothy Red Top and other grasses ripen, making thereby a much better quality of hay, when mixed with them. Lb., 45c, postpaid. Write for prices, stating amount wanted.

RED MEDIUM (*Trifolium Pratense*)—The standard clover for all purposes, either hay, pasture or for improving and enriching the soil. It is hardy and succeeds well on any good soil. It yields the heaviest crop of any clover except alfalfa, and makes superior hay — especially if mixed with timothy—either for dairy cows or for general use. Lb., 45c, postpaid. Write for prices, stating amount wanted.



RED CLOVER.

SWEET CLOVER

(From the writings of Prof. P. G. Holden and others.)

A few years ago, the only steadfast friend of sweet clover was the bee man whose neighbors in many cases accused him of maliciously scattering the seed of a despised weed. This opposition, however, is gradually changing to a more friendly attitude and today we observe many articles published in the agricultural press telling of the great worth of sweet clover as a soil enriching plant and as a feed for stock. Those who have grown it as a hay crop and for pasture praise it most highly.

It is commonly remarked by stockmen and farmers that stock will not eat it. This, no doubt, is true in many cases, as it is true of many other feeds to which stock are not accustomed—cattle and horses refuse to eat corn; cows most generally refuse to eat silage at first. Sweet clover affords early spring pasture.

This plant is a legume, and has in a general way the same characteristics and requirements as red clover, alfalfa and other legumes. It is closely related to alfalfa, and in the early stages of growth the plants resemble each other closely. The foliage has a strong, bitter taste, however, totally unlike alfalfa.

The same species of bacteria grow on both alfalfa and sweet clover roots and soil from a sweet clover field can be used to inoculate alfalfa, and vice versa. Sweet clover is a biennial, completing its growth the second year and then dying. Under favorable conditions it may reach a growth of from five to twelve feet the second year.

When all other foliage has been withered and killed by the scorching sun; when the pernicious chinch has devoured the last morsel of the silage crop, sweet clover will come to your assistance, making acceptable ensilage, and tide over a most critical period.

Possesses Many Excellent Qualities

Sweet clover has some qualities that excel those of most other legumes. The first great advantage it possesses is its ability to thrive

on any type of soil and under almost any climatic condition. In the South, where red clover fails, sweet clover is perfectly at home. At the same time it is able to withstand the rigors of a North Dakota winter. It will grow on a very sandy soil or on the heaviest clay; on stony hillsides and loose loams; where rainfall is heaviest and where it is too light to produce a crop of red clover and timothy. It will grow on raw clay ruts and gullies where no other plant can get a foothold, and grow luxuriantly. It will stand more alkali or more acid in the soil than clover or alfalfa, and is less dependent on good drainage than red clover, equalling alsike clover in this respect.

Does Well on Rough, Hilly Land

On very poor soils, however, it will thrive only where an abundance of limestone is present. Under such conditions its vigor and wonderful rooting system enable it to secure more plant food from the soil than almost any other crop. Thus it proves most valuable on rough limestone hills. On rough, hilly lands other than those of limestone origin lime must be added before the crop will prove of the highest value, but even where this is necessary no crop will equal sweet clover in helping to get the land into condition for other crops.

General Remarks

With a favorable season and good stand it can be pastured without injury to plant in about 10 weeks. First season can pasture or cut crop of hay; second season pasture, hay or seed. Most valuable as continuous pasture, when it will reseed itself without thought or care of the grower.

It will never bloat stock, horses, cattle, sheep or hogs, turned out at any time, even in rain or dew. A good stand will pasture 20 head of hogs to the acre. Ring the hogs.

WHEN TO SOW—The best results are obtained by sowing in early spring as soon as the ground is dry and warm enough to put in condition for a good shallow seed bed. In the South where the rainfall is copious in winter, fall planting will be better.

HOW TO SOW—Preferably in a fine shallow seed-bed on a firm subsoil. If sown before a rain it needs no harrowing. Always cover very lightly, as deep seeding is unsuccessful. Corn stubble, or any ground cropped the preceding year, by discing and harrowing, putting the top two inches of soil in fine condition is suitable for sowing. Always cover seed shallow. Without nurse crop preferred. Previous inoculation unnecessary; it inoculates itself, being better each succeeding year.

Sweet clover grows more rapidly than alfalfa when young, produces a good crop the first year, and provides early green pasture.

It will stand more alkali or more acid in the soil than alfalfa or red clover and produce a crop.

The foregoing statements and facts refer to the White Blossom Perennial variety.

WHITE BLOSSOM—(Melilotus Alba)—This lives two years and then dies. It is the variety commonly referred to when "sweet clover" is mentioned and is the best for general use.

It is an erect branching biennial plant with woody stems, the first season growing 1½ to 3 feet high and developing a large root, in which is stored food material for the second season's growth. The growth the second season usually reaches a height of 4 to 7 feet. It bears flowers and seed the second season

and then the plant dies, so it is readily controlled by cutting before it goes to seed. which will prevent any seed being self sown. Hulled seed. Lb., 35c, postpaid.

YELLOW BLOSSOM—(Melilotus Officinalis)—This variety belongs to the same family as the White Blossom, but it is not so prolific in growth, will not produce so large a tonnage, does not grow quite so tall, but is from ten days to three weeks earlier. Lb., 35c, postpaid.

Write for prices, stating amount wanted.

WHITE DUTCH—(Trifolium Repens)—A low, close-growing clover with white blossoms, very fragrant. It does not attain sufficient height to be profitable for hay, but is superior for pasture, either for cattle or sheep, and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass. Fancy for lawn. Lb., 90c, postpaid.

Write for prices, stating amount wanted.

GRASSES

BLUE CANADIAN (Pea Compressa) — A hardy variety growing on poorest and driest soils. Short (6 to 8 inches), hardy and wiry, but high in nutritive value. Decidedly blue in color. Stems flattened. Invaluable for use on steep places or exposed situations. Lb., 50c, postpaid. Write for prices, stating quantity wanted.

BLUE, ENGLISH OR MEADOW FESCUE (Festuca Pratensis)—A variety growing three to four feet high. Roots, deep, and resists drouth better than most grasses. It succeeds on any ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pasturage. Valuable to mix with other kinds. Lb., 50c, postpaid. Write for prices, stating quantity wanted.

BLUE KENTUCKY—This makes the best, sweetest and most nutritious pasturage for all kinds of stock. This grass is the first to start up in the spring and remains green until snow flies in the fall. It is very hardy and is uninjured by cold or dry weather, hot sun or tramping of hoofs. The roots are so thick and stout as to form a tough sod. Blue grass requires about two years to get well started and for that reason it is often sown in mixture with other grasses. It will do well on almost any land. Sometimes called "June Grass." Lb., 60c, postpaid. Write for prices, stating quantity wanted.



BROMUS INERMIS (Awnless Brome Grass) Withstands drouth well. The roots push through the soil and form fresh plants on every side. It starts from two to three weeks earlier in the spring than native prairie grass and it keeps green in the autumn longer than any of the useful grasses grown in the West. No amount of cold seems to be able to kill it. It bears up well under hot summer suns. It is an abundant producer of leaves and is much relished as pasture and hay. Lb., 40c, postpaid.

Write for prices, stating amount wanted.



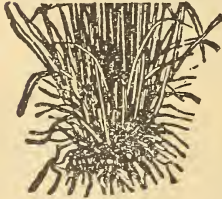
ORCHARD GRASS.



RED TOP (*Agrostis Vulgaris*)—A valuable grass for moist, rich soils where it thrives very luxuriantly. It is a good variety to sow with Timothy and Clover for meadow or pasture and is more permanent than either of the other two. It should be fed close, as, if it is allowed to grow up to seed, the cattle dislike it. On good soil it grows about two feet high; on poor gravelly land about half that height. It has been grown successfully even on alkali land where other grasses failed. Red Top is commonly known as Herd's Grass and it should be more extensively grown, especially in combination with other grasses. Hulled Seed, lb., 50c, postpaid. Write for prices, stating amount wanted.



RED TOP GRASS.



RYE, ENGLISH (*Lolium Percune*)—This is a valuable pasture grass which will bear close cropping. Produces an abundance of foliage, which remains bright and green during the season. The hay is relished by all kinds of stock. It will grow well on almost any land but does better in cool, moist locations. Lb., 35c, postpaid. Write for prices, stating quantity wanted.

RYE—ITALIAN (*Lolium Italicum*)—A quick-growing grass, attaining a height of 2½ to 4 feet. Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable. Lb., 35c, postpaid. Write for prices, stating quantity wanted.

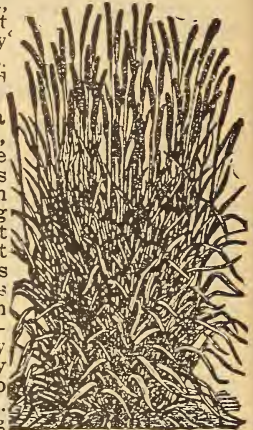
ORCHARD—It stands the drouth, grows well in the shade, does well in wet or poor ground. This grass furnishes excellent pasturage three weeks before any other, and after close grazing ten days' rest is sufficient for another growth. Cows fed on this will produce more and richer milk than on blue grass. It makes a very heavy sod and when well set remains for many years. It is especially adapted for winter grazing, as it remains green all season. Lb., 50c, postpaid. Write for prices, stating quantity wanted.

SUDAN GRASS is strictly an annual and dies each year, reaching a height of from seven to nine feet. The stems are small and rarely thicker than a lead pencil. The plant stools wonderfully and produces under favorable conditions as many as 100 stalks from a single root. All stock relish the hay and thrive on it. Yields of from two to four tons per acre are common and under irrigation they run as high as eight to ten tons to the acre.

SEEDING—Sudan Grass should not be planted until the soil has become warm in the spring. Planting in cold soil only delays germination and dwarfs the early growth. It can be sown any time during the summer as a catch crop so long as 70 to 80 days intervene before the date of the first expected frost. Sudan Grass can be sown in rows 18 to 42 inches apart and cultivated like corn, or it can be drilled in with a grain drill or sown broadcast by hand. Seeded in rows 36 to 42 inches apart. 2 to 3 pounds per acre of good seed are sufficient. In rows 18 to 24 inches apart 4 to 6 pounds, and drilled or broadcast 16 to 24 lbs. per acre are required. The grass stools abundantly after first cutting.

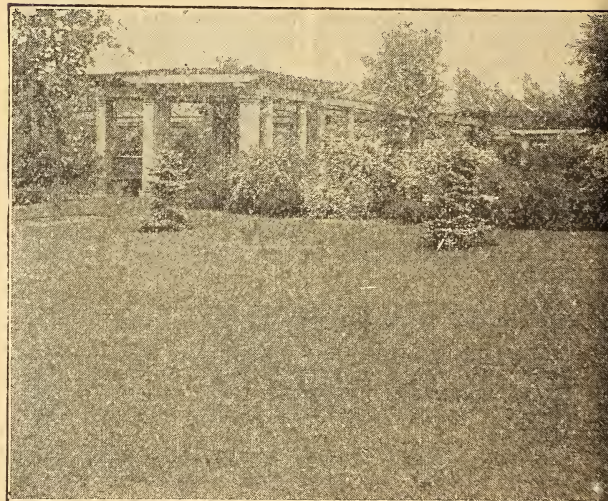
Price. Lb., 30c, postpaid. Write for price, stating quantity wanted.

TIMOTHY — On moist, loamy or clay soils it produces a larger hay crop than any other grass. It is not so well suited for light, sandy soils. Though preferring a moist, temperate climate, it withstands extreme heat and cold. Its hay is very nourishing and can be preserved for a long time. It should be cut when flowering, as, if left later, the hay becomes hard and coarse. It is often sown along with Red Clover, and the nutritive value of the hay is greatly increased by the mixture. Height, 2 to 3 feet. Lb., 25c postpaid. Write for prices, stating amount wanted.



TIMOTHY.

Lawn Grass



Remember when making a lawn that it is to last for years, and be an ornament to the home, so give plenty of time and care to

preparation before the seed is sown. Dig the soil deeply, break up the lumps, and thoroughly rake the top soil.

The most important thing to consider in selecting seed for lawn grass is to obtain a proper mixture. Our Clover Leaf mixture will give a green, smooth, velvety sod with a thick bottom and free from such varieties of common grasses as produce clumps. Do not put stable manure on your lawn, as it adds to the many weeds already in the soil, and if not well broken up the lumps of manure will smother the young grass.

In order to keep a lawn continually beautiful, it should receive frequent applications of fertilizers.

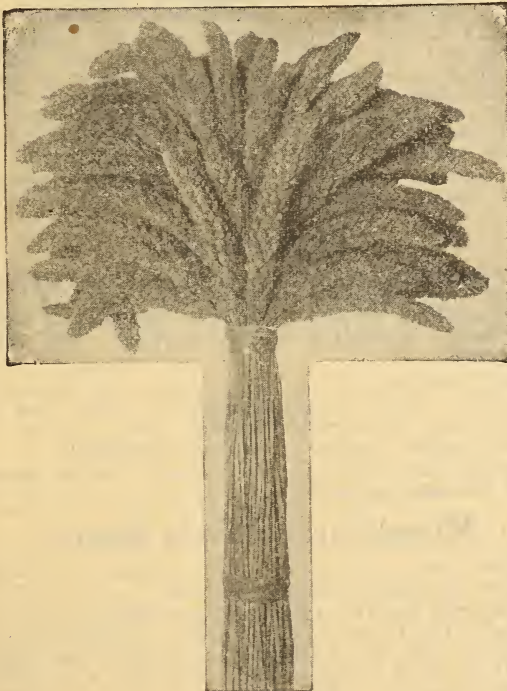
CLOVER LEAF LAWN GRASS—Lb., 75c, postpaid. Write for prices, stating quantity wanted.

Millets

The Millets are a valuable crop for the farmer who has lost his seeding, or for some other reason expects to be short of hay, for in 8 or 10 weeks from sowing it is ready to cut for hay.

Millet can be sown as early as the middle of May, or as late as July 10th, although when sown July 10th, the crop comes so late in September that it is hard to cure on account of the cool weather and shorter days.

Write for prices on Millets, stating quantity wanted. All Millets, 25c, lb., postpaid.



Golden Millet

GOLDEN—This grows very rank and is one of the best varieties for hay or fodder. On good rich soil it will make a growth of 4 or 5 feet high, and although the hay may seem coarse, yet it is so tender that if cut at the right stage, which is when in full bloom, even the hogs will eat the cured hay quite greedily.

EARLY FORTUNE MILLET—Has given astonishing yields of both seed and fodder. It is very early and is claimed to be rust-proof. The fodder can be fed to horses and other stock without injury, even after the seed has formed which can not be done with safety with most of the millets. The seed is large and of a beautiful red color.

HOG—Very rich and thus especially valuable as a hog food. A very much prized peculiarity of this millet is that the seed ripens while the stem is yet green; thus, if cut promptly can be threshed for the seed, while the hay after being threshed will make excellent fodder.

JAPANESE—Grows from four to seven feet tall, but is not harsh and woody, as other grasses are. In some sections of the country it is known as Barnyard Millet, while in other parts of the country it has been erroneously introduced under the name of Billion Dollar Grass by some seed houses.

SIBERIAN, OR RUSSIAN—Is claimed to be from two to three weeks earlier than the Golden Millet, that it is a much heavier cropper, that the hay is much finer, stalks more elastic and grows much taller, that it is rust-proof, and being of stooling habit, requires much less seed per acre.



WHITE WONDER MILLET—The most striking feature of White Wonder Millet is the size of the heads, making it a very heavy yielder. The heads will run from eight up to eighteen inches and a single head will have as many as 15,000 seeds.

The foliage is very heavy, the leaves broad, and therefore produces an immense amount of excellent fodder which cures very readily.

Write for prices on Millets, stating quantity wanted. All Millets: 25c lb., postpaid.

Peas, Field

Field Peas are a very profitable crop and should be grown very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog feed and are very fattening.

Write for prices on all field peas, stating variety and amount wanted.

CANADIAN WHITE—A leading kind; seed almost white; a heavy cropper. Lb., 20c, postpaid.

PEAS—Continued.

GREEN—A very productive variety yielding as much as Canadians, but has less straw and is earlier. Lb., 20c, postpaid.

COW—Cow Peas are more tender than Canada or Field Peas and should not be sown until corn planting time. Cow Peas, being of very rapid growth during the warm weather, can be sown as late as the middle of July with reasonable assurance of a profitable crop, either for harvesting or plowing under. Are really small beans of vigorous vining habit and heavy foliage.

NEW ERA COW PEAS—A new, extra early variety, the quickest growing of any of the Cow Peas, maturing in about 60 days; specially adapted for planting north. Lb., 25c postpaid.

WHIPPOORWILL—A brown, speckled, medium sized pea. A very prolific seed yielder; matures about ten days later than the New Era; upright and vigorous grower. Lb., 25c postpaid.

Write for price on all field peas, stating variety and amount wanted.

Rape



DWARF ESSEX—Perfectly hardy and of remarkable fattening properties. Easily grown. Pigs, sheep and cattle are all extremely fond of it. A very rank grower and bears heavy manuring and high cultivating. Sow at intervals of several weeks and secure a supply of good feed. If soil is rich and clean, sow broadcast, otherwise in drills and cultivate same as corn. Lb., 25c, postpaid. Write for prices, stating amount wanted.

Vetches

SPRING—A pealike plant grown extensively in England and to a considerable extent in Canada for stock feeding, but not as much used in the United States as it should be. Lb., 25c, postpaid.

WINTER SAND OR HAIRY (*Vicia Villosa*)—It belongs to the pea family, but the vines are much longer and the foliage more abundant. It is advisable to sow oats, barley or rye, etc., with Vetch, which serves as a support for the plants. A sowing in August or September covers the

ground before winter. Can also be sown in April and will be ready to cut by the middle of July, the second growth affording excellent hog pasture during the summer. The yield of forage varies from ten to fifteen tons per acre, equal to three or four tons when cured as dry hay. Lb., 30c, postpaid.

Write for prices on vetches, stating variety and amount wanted.

Buckwheat

JAPANESE—This variety excels all others; yield much heavier; ripens one week to ten days earlier; stands up better and makes better flour. Excellent for bee pasture. Lb., 25c, postpaid.

SILVER HULL—A very good and popular variety. Grain is of light gray color; has a thin husk; matures early and yields heavy. A good milling variety. Lb., 25c postpaid.

Write for prices on buckwheat, stating kind and amount wanted.

Miscellaneous Field Seeds

Write for prices on all varieties of field seeds, stating quantity wanted.

BROOM CORN, IMPROVED EVERGREEN—This is the most popular variety of broom corn to grow for the market, the brush being firm and of good length, and retaining the light green coloring when properly cured. Lb., 25c, postpaid.

EGYPTIAN CORN (also called Jerusalem Corn or Dhoura)—One of the non-saccharine sorghums, requiring the same growing conditions. Seeds well in dry sections. Producing small heads on side shoots up to eight on a stalk, the seed is larger than Kaffir corn; yield is heavy. See our notes on Sugar Cane. Lb., 25c, postpaid.

FETERITA—It belongs to the Sorghum family. The advantages claimed for Feterita are its drouth-resisting qualities, its heavy yield, its earliness, its stooling propensities and its freedom from insect pests. See remarks under Sugar Cane relative to a thorough trial. Lb., 25c, postpaid.



FLAX SEED (Recleaned for planting)—Lb., 30c, postpaid.

KAFFIR CORN—Grows 4 to 5 feet high. The stem or stalk bears numerous wide leaves. The stalks are brittle and juicy, not hardening like other varieties of sorghum. See our notes on Sugar Cane. Lb., 25c, postpaid.

KALE—(Thousand Headed)—The great demand for this wonderful forage plant proves it to be the most valuable green feed for Pacific Coast dairy and stockmen; endorsed by Agricultural Colleges and Government stations. Postpaid, oz., 10c; 2 oz., 20c; ¼ lb., 30c; ½ lb., 50c; lb., 90c.

LENTILS—Succeed best in dry, sandy soil. A leguminous annual, the seeds of which are valuable for pigeons and are used largely for soups. The leafy stalks make good forage. Lb., 30c, postpaid.

MILO MAIZE—This is one of sorghums similar to Kaffir Corn. Grows erect, with thick, close-jointed stalk. Height, 4 to 7 feet. See remarks under Sugar Cane relative to thorough trial. Lb., 25c, postpaid.

SUGAR CANE is supposed to be, grown to advantage any place where you can produce a good crop of corn. From our knowledge of this article and our knowledge of the Inland Empire we would recommend the farmers to give this a thorough trial, but do not think it would be wise to go into it extensively until you have demonstrated that it can be grown profitably in your particular location.

EARLY AMBER—This is the earliest, richest and altogether the best sort for northern latitudes. Lb., 30c, postpaid.

SUNFLOWERS FOR SILAGE

SUNFLOWER—(Large Russian)—Although the sunflower (*Helianthus Annus*) is a native of North America, and has grown in nearly every garden in this country, it is only in recent years that it has been recognized as a forage plant. The earliest record of sunflower cultivation is found in Spain about 350 years ago. It adapts itself to a wide range of soil and climate, responding to rich soil and good cultivation much like the corn plant. It has been extensively cultivated for its seeds, which are very rich in oil. In this country, the seed has been extensively used as poultry food. Lb., 25c, postpaid. Write for prices, stating amount wanted.

GRAIN

In securing your seed grain it should be selected because that each grain has been well filled and thoroughly matured, because it has all ripened at the same time, and because of its freedom from all seeds that can not be separated from the grain. Kindly write us, asking for prices and state the amount wanted. Stating the amount is very important, as we do not know whether an inquirer wants one hundred pounds or a ton. In case amount is not stated we always quote price on a small amount. You are therefore depriving yourself of our best prices should you want a quantity.

Write for prices on all varieties of grain, stating kind and amount wanted. Present quotations not guaranteed.

Wheat

There is wheat and wheat, and it is penny wise and pound foolish to sow inferior quality. This inferior quality may be because the grains have not been fully developed or on account of impurity, or on account of improper cleaning. We guard against all three, hence our quality is right.

Winter—Jones Fife, Martin Amber, Gold Coin.

Spring—Bluestem, Marquis, Early Bart.

Write for prices, stating quantity wanted.

Oats

We handle the varieties mostly grown. Our quality will be as good as careful selection and recleaning can make them. Price, 100 lbs., \$3.50.

Write for prices, stating quantity wanted.

Barley

BEARDLESS—Two strong features distinguish the Beardless Barley above all other barleys; first, its great yielding qualities; second, its freedom from the troublesome beard. It is on this account not only much more agreeable to handle in threshing than other barleys, but it is much safer and better to feed to live-stock. As a fattening agent for swine Beardless Barley is particularly valuable. Price, 100 lbs., \$3.50.

Write for prices, stating amount wanted.

Rye

Ask for prices on rye, stating amount wanted.

Rye cross-breeds like corn. In this respect it differs from wheat, which will not cross fertilizer, if two or more kinds are grown together for years. To keep a pure rye pure, it should be grown away from other rye, like you must grow yellow corn distant from white corn.

Rye is a valuable and very hardy crop, producing green fodder either in the early spring or late fall. It matures before other crops come in and can be sown on soil too poor for other cereals. Rye does not exhaust the soil as do other grains and can be cultivated longer on the same land than any other crop on the farm.

SPRING RYE—Spring Rye is an excellent catch crop where winter grain has been killed out, or for sowing where a full crop has not been planted. If desired it can be turned under and made to answer a good purpose in adding to the fertility of the soil. Spring Rye has been almost impossible to secure the past few years and is also scarce this season again. We have secured a limited supply, and would therefore suggest the advisability of placing your order early. Price, 100 lbs., \$3.50.

WINTER RYE—The value of Winter Rye is becoming more apparent every year. It is much harder than wheat and can be grown on a greater variety of soils, even on soil that would not produce a fair crop of wheat. It will thrive even in dry seasons and on light sandy loam. It is grown not only for grain, but for fodder and soiling purposes. When sown in the autumn it starts up very early in the spring and is often plowed under, as it adds greatly to the fertility of the soil. Price, 100 lbs., \$3.00.

Rosen Rye

Plant it to get a 50 per cent increased yield.

Rosen rye was selected and bred from a Russian rye, the selection beginning in 1909 in this country by a Russian by the name of Rosen. Rosen rye outyields common rye from 25 to 50 per cent.

Rosen rye is a stiff-strawed, large headed variety which, ordinarily has four full rows of grain on over 99 per cent of its heads. It seldom winter kills and is rapidly taking the place of wheat on lighter soils and under adverse climatic conditions.

Five years ago we shipped in the first Rosen rye brought to this section. We find that this rye is now generally mixed and can not be depended upon as being true Rosen rye. We have secured another car in Michigan and believe this will be found much truer to type than local grown seed. Price, 100 lbs., \$4.00.

Prices on all grain are merely estimates and are not guaranteed. Write for prices, stating amount wanted, or we will fill all orders at price prevailing on date of shipment, sending grain for the amount of remittance received.

Kill the Smut in Your Grain

If there is smut in your grain destroy it by using bluestone or formaldehyde. This trouble is becoming very prevalent, and must be destroyed if wheat is to keep up its high grade of milling qualities. See page 85 for directions.

NURSERY STOCK

In compliance with requests from many of our customers for nursery stock we are listing the following varieties, but desire to state that this nursery stock is not of our own growing, but that we are securing it from sources that we believe to be thoroughly reliable and have every reason to believe that it can be relied upon as being dependable and trustworthy. Make an examination of shrubbery and trees as soon as received, and should there be any reason for complaint we ask that this be done at once so that we can report same promptly to our nursery man.

Add 10c for postage when your order only calls for one root and 3c per root when more than one is ordered. This will equalize postage charges.

VINES AND CLIMBERS

Ivies

BOSTON IVY.—Japanese Ivy. Best known and most popular climber for chimney, brick and stonework. Graceful and showy foliage, thrives under all conditions. Each, 50c, 75c, \$1.00.

ENGELMANNI.—Deeply cut leaves which turn to a beautiful crimson in fall. Clings to walls without aid of artificial support. Vigorous growth. Each, 50c; 75c; \$1.00.

VIRGINA CREEPER OR AMERICAN IVY.—Fast growing, hardy creeper, massive foliage, deeply cut leaves which turn to a beautiful crimson in fall. One of the very best for porches, trees, rocky slopes, etc. Each 50c to 75c.

CLEMATIS

Popular vines for covering porches, trellises and arbors, and to climb over tree trunks, posts and fences. They are free flowering and very showy. The first two are large flowered varieties, blooming in late spring and summer.

HENRYI.—Large single white flower, most popular of its color. Each \$1.00.

JACKMANI.—Large velvety dark purple flower, very showy. Each \$1.00.

MONTANA.—Clusters of sweet anemone like white flowers in late spring. Vigorous and hardy and very showy in flower. Each \$1.00.

PANICULATA.—The late flowering, Japanese variety with panicles of small white fragrant flowers borne in great profusion in early fall. Very desirable, entirely hardy. Each, 50c, 75c.

VILLE DE LYON.—Red, very desirable. Each \$1.00.

HONEYSUCKLES

HONEYSUCKLE.—Favorite vines with fragrant flowers, strong growers and well adapted for trellis work, on fences and verandas and especially beautiful when allowed to grow in wild and natural way, for covering sheds, rock heaps, old tree stumps and unsightly places. Their vining qualities are all that can be desired, but the delightful fragrance of their flowers makes their strongest bid for favor.

BELGIA or **EVERBLOOMING**—Flowers yellow, blotched with red above; blooms all summer, fragrant. Each, 50c, 75c.

HALL'S JAPAN.—Practically evergreen, retaining its rich dark green foliage most of the winter. Blooms continuously from June until frost, fragrant white and yellow flowers, in great abundance. Each, 50c, \$75c.

SCARLET TRUMPET.—Trumpet shaped flowers of bright scarlet. Each, 50c, 75c.

WISTARIAS

Strong-growing, free-flowering climbers. They are hardy and ornamental, but require deep, rich soils and the occasional use of fertilizers, to obtain best results. When well established, a greater abundance of the lovely flowers can be had by rather severe pruning, cutting back the lateral shoots to short spurs and heading back the leaders conveniently, taking care, however, not to overdo it. The grafted Japanese varieties are strongly recommended as superior to the seedlings.

JAPANESE PURPLE.—Grafted purple variety, vigorous and tall growing vine with bright green foliage, flowers light purple in loose drooping racemes 12 to 30 inches long. Fine anywhere that a vine may be used but especially good on arbors and pergolas where the long racemes may hang through. Price \$2.50.

JAPANESE WHITE.—A grafted white flowering form, racemes very long and beautiful. Each \$2.50.

Common purple, each 75c, \$1.00, \$1.50.

Common white, each 75c, \$1.00, \$1.50.

BEST HARDY PERPETUAL ROSES

Two Year Old, Field Grown, on Own Roots. Each, 60c; 1/2 doz., \$3.50; doz., \$6.00.

(Except where noted, add for postage.)

AMERICAN BEAUTY—One of the largest, sweetest and best; rich rosy crimson, shaded and veined in a most charming manner. Each, 75c; 1/2 doz., \$4.00; doz., \$7.75.

CONRAD F. MEYER—A most valuable addition to the list of hardy, free-blooming roses. The color is a beautiful pure silvery pink.

FRAU KARL DRUSCHKI—Many rose-lovers call this beautiful rose "Snow-Queen"; others simply call it the "White Rose." The blooms are very large, sometimes reaching nearly 6 inches in diameter. The growth of the plant is strong and vigorous, and it bears blooms abundantly in June.

GENERAL JACQUEMINOT.—The old favorite "Jack" Rose is still popular. The blossoms are large, full, and globular, having an excellent cup-shaped form. In color they are brilliant scarlet-crimson, with deeper veinings toward the petal bases.

GEORGE ARENDS—Strong-growing plant, bearing an abundance of well-shaped delicate pink flowers. A very satisfactory sort which has been largely planted.

GEORGE DICKSON—It is one of the best dark roses in existence. The blooms are as nearly perfect as those of any rose, large, full and fragrant. The color is deep velvety crimson, almost black on the front of the petals, while the reverse side is heavily and deeply veined with rich crimson-maroon.

GRUSS AN TEPLITZ—One of the best garden roses, giving many beautiful flowers from early June until frost kills the buds. The flowers are crimson-scarlet, bright enough to attract the attention of the observer, but not vivid enough to throw other sorts into the background.

HIS MAJESTY—A magnificent new rose of wonderful growth and hardiness. Produces blooms of immense size on fine long canes. Color, dark crimson, shaded deep vermillion towards the edges.

HUGH DICKSON—Intense crimson, shaded scarlet; very large; full and magnificent form, with high pointed center. Delightful perfume. A gold medal rose.

MARSHALL P. WILDER—Bright cherry carmine, very fragrant; one of the finest bloomers.

MRS. JOHN LAING—Extremely large blooms of soft pink. Long buds; cup-shaped, fragrant flowers. Strong grower, free bloomer. A very popular rose.

PAUL NEYRON—The largest rose in existence, frequently reaching 6 inches in diameter. The color is clear pink, shading to soft rose; has a delightful fragrance. The plant is a strong, heavy grower and blooms several times during the season.

PRINCE CAMILLE DE ROHAN—One of the darkest colored roses; very dark velvety crimson, changing to intense maroon. A very prolific bloomer, and flowers are of excellent form and size.

ULRICH BRUNNER—Extra-large flowers of light red, bordering on scarlet or crimson—a shade of red distinctly its own. The flowers are borne in profusion on long stems. A very vigorous grower. A variety of standard excellence.

HARDY EVERBLOOMING HYBRID TEA ROSES

Two Year Old. Field Grown on Own Roots.
Each 60c; ½ doz., \$3.50; doz., \$6.00. Add postage.
Except where noted.

Cream and White

FRAU KARL DRUSCHKI—The white American Beauty. Makes splendid buds and immense flowers.

DUCHESS OF WELLINGTON—Intense saffron-yellow stained with rich crimson. Very large and fine form. Beautiful in bud as well as open flower.

ETOILE DE LYON—Clear, bright, golden yellow; makes beautiful buds and is very double and sweet.

KAISERIN AUGUSTA VICTORIA—Pure white, does not pink when planted out; splendid large buds and superb, full, double blooms. A most sturdy grower, blooming steadily from early spring until late frost. Each, 75c.

VISCOUNTESS FOLKTONE—Creamy-white, deep salmon-pink center; large, full; produced in great profusion and opening freely.

WHITE LA FRANCE—Large and finely formed buds and blossoms having broad petals of silvery white with very delicate pink shadings. A fragrant, free and continuous bloomer.

Crimson and Red

EDWARD MAWLEY—One of the finest roses known. The buds are deep purplish crimson, opening to extra-large, perfectly formed blooms of dark blackish crimson.

ETOILE DE FRANCE—Intensely brilliant crimson. A very free bloomer and a most excellent rose.

HOOSIER BEAUTY—A large, full flower with well shaped buds; color is an exceptionally attractive glowing, velvet crimson. Each, \$1.00; ½ doz., \$5.50; doz., \$10.50.

LADY BATTERSEA—Lovely wine-red; very long pointed buds and large, full and double blooms.

RICHMOND—Originated by an experienced American grower. The blooms are very large and full. The color is a beautiful scarlet-crimson. For several years Richmond has been considered one of the best roses of American origin, and it well merits this distinction.

Pink Shades

KILLARNEY BRILLIANT—The introducers describe it in these glowing words: "An improvement on the original Pink Killarney, because of its more brilliant color, which is almost crimson in bright weather. One of the best of the recent originations and very popular."

LA FRANCE—This was the very first Hybrid Tea Rose. The flowers are large and have a beautiful globular shape. In color a bright pink on outside of petals and a lovely silvery pink on the inside. The leather-like foliage is deep beech-green in color, contrasting nicely with the handsome blooms.

MADAME ABEL CHATENAY—A good grower and perpetual bloomer; large and beautiful in bud and bloom. Deep rose pink.

MME. CAROLINE TESTOUT—A grand rose, with large full flowers and handsome buds; rich pink. The hardiest of the Teas.

OPHELIA—Brilliant, salmon-shaded with rose on outer edges of petals, with a heart of glowing peach-pink and orange-yellow blendings; handsome bright foliage, immune to mildew. Each, 85c; ½ doz., \$5.00; doz., \$9.00.

Yellow

BETTY—One of the points of excellence that recommends Betty is its long blooming period—from June until frost. The blooms are extra large in size, full and globular in form, with a delightful fragrance. The color is a coppery rose overspread with golden yellow. Very good autumn bloomer.

MABEL DREW—Sturdy, erect growing, with large, full perfectly formed flowers. Creamy yellow buds passing to intense canary yellow as the flower expands.

MADAME JENNY GILLEMOT—Rich amber yellow, deepening in the center to orange and copper color, delicately tinged with crimson. Fine long pointed buds and large full flowers.

MRS. AARON WARD—One of the most beautiful roses of recent years in a color that catches the eye at once. A deep golden orange shading to lemon or creamy yellow at the edge of the petals. Each, \$1.00.

SUNBURST—The introducer of this wonderful rose describes it in these words: "Sunburst is a vigorous grower of robust constitution, with erect or slightly spreading habit and few thorns; fine reddish green bronzed foliage. The buds are long and generally borne on long stout stems; the flowers are large, full, and of fine elongated, cupped form. The color is a superb cadmium-yellow passing to yellow-orange in the center." Each, \$1.00.

NEW EVERBLOOMING ROSES

Two Year Old, Field Grown, on Own Roots.

Each \$1.00; ½ doz., \$5.75; doz., \$10.50.

(Except where noted add postage.)

COLUMBIA—A splendid, large fully double rose of very lasting qualities. It is a strong, almost thornless, and the brilliant rose-pink flowers are most attractive.

DUCHESS OF WELLINGTON—Intense saffron-yellow stained with rich crimson. Very large and fine form. Beautiful in bud as well as open flower.

ROSES—Continued.

GORGEOUS—Flowers are large and full. Deep orange yellow and heavily vined with reddish copper, the most charming and gorgeous colorings that has yet been produced. Each \$1.25.

JOSEPH HILL—Splendidly formed flowers of large size and great beauty. The color is deep saffron-yellow on the inside of the broad petals and coppery yellow on the outside.

LADY HILLINGDON—Deep apricot yellow; long and pointed buds. Excellent for cutting.

LOS ANGELES—One of the finest roses ever introduced. In color a luminous flame-pink, toned with coral and shaded with translucent gold at the base of the petals. Each \$1.50.

LUDWIG MOLLER—This is the wonderful yellow Druschki, having all the good qualities of that rose. Vigorous grower, free bloomer and has deep, golden-yellow flowers.

MADAME BUTTERFLY—The buds are a lovely shade of Indian red, yellow at the base, unique for corsage and low table decorations; the opening flowers are perfect in form and texture, clear and brilliant in color and of delicious fragrance.

MISS LOLITA ARMOUR—Bud medium; flowers large, cupped, double borne, several together, on long stems; very fragrant. Color, chrome-yellow at base, shading copper; reverse of petals with brilliant copper suffusion. Growth vigorous, bushy, upright.

MRS. HENRY WINNETT—The finest of all red or crimson varieties. The buds are long and well formed. A superb red rose.

OLD GOLD—Vivid reddish-orange, with copper-red and apricot shadings; strong, mildew-proof and free.

WILLOWMERE—Carmine-coral red bud, opening rich, shrimp-pink, shaded yellow in the center and toning to carmine-pink at the petal edge. A very beautiful rose.

HARDY CLIMBING ROSES

Two Year Old. Field Grown on Own Roots.

Each, 50c; 1/2 doz., \$2.75; doz., \$5.00.

(Except where noted add postage.)

AMERICAN PILLAR—Flowers three or four inches across, of pleasing apple-blossom pink, with clear white eye and cluster of yellow stamens.

CLIMBING AMERICAN BEAUTY—Heavy strong grower; hardy everywhere. Color rich red passing to crimson. Very popular. Each, 75c.

CLIMBING GRUSS AN TEPLITZ—A perfect sheet of crimson when in bloom. It's the same as the Bush Teplitz. Each, 75c.

CRIMSON RAMBLER—One of the best Roses known today. Hardy as oak; withstands every climate; grows rapidly and blooms all season long. Double deep crimson flowers borne in large clusters. A plant under favorable conditions grows to a great height the first season.

DOROTHY PERKINS—Beautiful shell-pink color, which holds for a long time, fading finally to a lovely deep rose. Free of mildew.

DR. W. VAN FLEET—Large, fully double flowers of a dainty flesh pink with rosy center. Flowers are of perfect form with reflex petals and are carried on long stems suitable for cutting. Each, 75c.

EXCELSA—Red Dorothy Perkins. Intense crimson-scarlet; double flowers in brilliant clusters set in glossy shining foliage which never mildews or spots.

FLOWER OF FAIRFIELD—Brilliant crimson, base of petals white—a splendid grower and a great improvement over the old type.

PAUL'S SCARLET CLIMBER—Vivid scarlet, shaded crimson; makes a brilliant display for a long period or time. Each, 60c; 1/2 doz., \$3.50; doz., \$6.00.

TAUSENDSCHON—Mult. Differs from every other rose because the large clusters of flowers vary in color from pink to white, the buds on first opening being a light cherry-pink, changing when fully open to delightful rosy carmine, fading white. Well merits the name "Thousand Beauties." Strong, vigorous grower. Each, 75c.

WHITE DOROTHY PERKINS—A sport from Dorothy Perkins, possessing all the fine qualities of that grand variety; but having pure white flowers.

YELLOW RAMBLER—Pure, bright yellow, same type and growth as Crimson Rambler.

FLOWERING SHRUBS

ALMOND—Spring flowering shrubs, gaily in full bloom before the leaves appear. Their growth is dwarf, bushy and compact; slender branched; when in bloom completely hidden by beautiful, double flowers of rose or white, snuggling tight to the twigs. Double white and Double Pink, 2 to 3 feet, \$1.00.

BARBERRY—BERBERIS

A valuable group of low growing shrubs, admired for their early yellow flowers, good foliage, and brilliant fruit that clings along the leaves and branches at a time when few other shrubs are attractive.

COMMON—Sturdy, erect-growing shrub, with grooved, spiny branches and light green, prickly leaves; golden yellow flowers in spring, followed by bright scarlet fruits in autumn, which persist through the winter. Two to three feet, each, 50c; 3 to 4 feet, each 75c.

THUNBERG'S JAPANESE—Hardy, dense low-growing shrub, with spreading, deeply grooved, thorny branches and small, bright green, oval leaves that turn to brilliant shades of orange and yellow in autumn; the large, bright red berries remain on the bushes throughout the winter. Each, 25c, 35c, 50c, 75c.

PURPLE—A showy and effective shrub with purple leaves; yellow flowers in May; reddish purple berries in autumn, which persist nearly all winter. Each, 75c, \$1.00.

CRANBERRY—HIGH BUSH

Handsome, dense, brilliant green foliage, a rich setting for large bunches of crimson berries which enliven the late summer and persist on bare branches into the winter. Two to 3 feet, each, 50c; 3 to 4 feet, each, 75c; 4 to 5 feet, each, \$1.00, \$1.25, \$1.50.

CURRANTS—FLOWERING

RED—A native of Oregon blooming abundantly in May, bearing bright pink, almost carmine flowers. Should be in every collection.

YELLOW—Vigorous-growing shrub with bright green, three-lobed leaves and golden yellow flowers in racemes of five to eight, appearing in early spring with the leaves. Berries are black; edible. Easy to grow.

Both varieties of currants, each, 50c, 75c, \$1.00.

DEUTZIAS

An ornamental shrub that is grown because of its profusion of showy white flowers in spring or early summer. A thinning out of the old wood soon after the flowering season will be of advantage, but this should be done with caution for the greatest bloom is obtained from plants that have had a minimum of pruning. Very effective for borders of shrubberies.

GRACILIS (Dwarf)—Slender, low-growing shrub, with branches usually arching and having bright green leaves which are slightly rough on the upper surface; flowers pure white, in long, graceful racemes, 8 to 12 inches. Each, 50c; 12 to 18 inches, each, 75c.

LEMOINES—Small, spreading shrub that is vigorous in growth and produces large white flowers. Very effective for border planting, 12 to 18 inches, each, 50c; 18 to 24 inches, each, 75c.

PRIDE OF ROCHESTER—A distinct and vigorous-growing variety that comes into bloom early and delights the eye with its large, double, white flowers which are tinged with pink in the bud, 2 to 3 feet, each, 50c; 3 to 4 feet, each, 75c.

FORSYTHIAS

One of the first plants to flower in early spring, blooming before the leaf buds burst on other plants in exquisite splendor and brilliancy. They thrive in almost any fertile soil, but should be planted where they will receive the benefit of the early spring sunshine.

FORTUNEI—Bark bright yellow; blooms in dense masses of golden flowers in early spring.

INTERMEDIA—Flowers bright golden; foliage glossy green like *Viridissima*, but hardier than that variety.

SUSPENS A (Weeping Forsythia)—A very useful shrub with a wealth of slender, vine-like, drooping branches, and profusion of golden bell-like blooms. All varieties of *Forsythias*. Two to 3 feet, each, 50c; 3 to 4 feet, each, 75c; 4 to 5 feet, each, \$1.00.

HYDRANGEA

A well known and favorite class of shrubs, including some of the most showy flowering plants that are found in cultivation. They grow easily, have no insect enemies and are all of them hardy in the Pacific Northwest. One of their best features is that they bloom profusely from July to September, when flowers are comparatively scarce.

HILLS OF SNOW or Snowball Hydrangea—One of the most showy of the *Hydrangeas*, with its profusion of snow-white clusters of flowers decorating the plant most of the summer similar to the well known snowball in appearance. Very showy. Each, 50c, 75c, \$1.00.

OAK LEAVED—A rare and distinct variety, with large, deeply lobed, green leaves, white and downy on under side. Large panicles of creamy white flowers, with numerous white, or pinkish white rays. Takes on most brilliant autumnal colorings. Each, \$1.50.

PANICULATA GRANDIFLORA, LARGE FLOWERED—A grand plant, showy and attractive, remaining in bloom for a month. Flowers are pure white, afterward changing to pink, and are borne in immense clusters, beginning in July and holding them until October. Will bloom same season planted. Remember that they should be pruned back heavily in the early spring before growth starts, to two or three buds as they form their flowers in panicles on the end of the season's growth. 18-inch, 60c; 24-inch, 75c; \$1.00.

LILAC

Without a doubt among the most popular of the early spring bloomers. Their bright green foliage and large, showy, fragrant panicles of flowers contribute brightness and perfume to the landscape.

PURPLE—Hardy and vigorous, blooming profusely even under adverse conditions; flowers light purple, fragrant, and borne in good-sized clusters in May. Two to 3 feet, each 40c; 3 to 4 feet, each, 60c; 4 to 5 feet, each, 75c, \$1.00.

WHITE—The well-known, old-fashioned pure white variety with fragrant flowers and luxuriant foliage. Three to 4 feet, each, 50c, 75c; 4 to 5 feet, each, 75c, \$1.00.

QUINCE FLOWERING

QUINCE JAPAN OR FLOWERING (Cydonia Japonica)—Low spreading shrub, the branches of which are armed with formidable thorns. In early spring the branches are hidden by the wealth of dazzling scarlet flowers. The quince-shaped fruits are quite fragrant. 12 to 18 inch, 50c; 18 to 24 inch, 75c; 2 to 3 feet, \$1.00.

SNOWBALLS

Hardy, upright, mostly rather large shrubs of good, compact habit, neat foliage, white flowers in showy clusters. The bloom is very profuse and the flowerheads of large size. Fine for planting along shrubbery or roads; some species will make a showy appearance if planted alone on the lawn.

COMMON—The old-fashioned favorite, with large, globular clusters of white sterile flowers blooming the latter part of May. Very useful for specimens or for planting in groups. Two feet, 50c; 3 feet, 75c, \$1.00.

DOUBLE JAPANESE (Plieatum)—One of the most charming hardy flowering shrubs in existence; bears great wreaths and clusters of pure white globular masses of flowers like real balls of snow; covered with bloom for weeks in the spring. Grows 4 to 6 feet high; entirely hardy, needs no protection; splendid for dooryard, lawn and cemetery planting. Two feet, each, 75c.

SINGLE JAPANESE (Tomentosum)—Rather tall, vigorous grower, with spreading branches, rich olive-green foliage, bronze-margined; flowers white, in flat-topped clusters; berries red, changing to bluish black. Two feet, each, 75c.

SPIREAS

A group of low or medium-sized deciduous ornamental shrubs that distribute their white or pink blossoms over practically the whole season, some varieties blooming in very early spring others in midsummer, and yet others in autumn. Their habit of growth is exceedingly graceful, and the bloom is so profuse as almost to hide the leaves.

Anthony Waterer—Covered nearly the whole growing season with large umbels of deep crimson flowers, which measure nearly a foot across. Ten to 12 inches, 50c; 12 to 18 inches, 75c; 18 to 24 inches, \$1.00.

PRUNIFOLIA (Bridal Wreath)—Slender, erect-growing variety having beautifully colored foliage and bearing very early in the spring small double white flowers the entire length of its branches. Very graceful habit. Two feet, 60c.

THUNBERGI—Low-growing, of compact form, with delicate light green foliage which colors up beautifully in the fall. Small white flowers in great profusion, early in the spring. Two feet, 75c.

VAN HOUTTEI—The grandest of all the *Spiraeas*. It is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardly showing. Perfectly hardy and an early bloomer. Two to 3 feet, each, 50c; 3 to 4 feet each, 60c; 4 to 5 feet, each, 75c, \$1.00.

SYRINGA OR MOCK ORANGE

Hardy, fragrant, flowering shrubs that add great beauty and perfume to gardens and homes. Strong, large plants that will flower the first season.

AVALANCHE—Large fragrant flowers on slender branches which arch gracefully to the ground. 18 to 24 inch, each, 50c; 2 to 3 feet, each, 75c.

GORDONIANUS—Very late bloomer, valuable for this quality, a large, fragrant white flower. Two to 3 feet, each, 50c; 3 to 4 feet, each, 75c; 4 to 5 feet, each, \$1.00.

GRANDIFLORUS—Good large flowered, strong growing sort that is very desirable. Two to 3 feet, 50c; 3 to 4 feet, 75c; 4 to 5 feet, \$1.00.

WEIGELIAS

A valuable genus from Japan; spreading and drooping shrubs, producing beautiful trumpet-shaped flowers of many colors from pure white to red in great abundance, from late spring to early summer.

CANDIDA (White)—Hardy variety, vigorous and fine in habit. Long tubular white flowers produced from June on throughout the summer. 2 to 3 feet, each, 50c; 3 to 4 feet, each, 75c.

EVA RATHKE—A free flowering bright red variety of rather dwarf habit. 2 feet each, 75c; 3 feet, each, \$1.00.

ROSEA—The old standard, strong growing, pink flowered variety. 2 to 3 feet, each, 50c; 3 to 4 feet, each, 75c.

ROSEA VARIEGATA (Variegated)—A near dwarf shrub, valuable for the clearly defined variegation in its leaves of green, yellow and pink. Effective and useful, being one of the best variegated leaved shrubs known. Flowers light pink and blush. 2 feet, each, 50c; 3 feet, each, 75c.

FRUIT

BLACKBERRIES—BUSH

Two year old: Each, 25c; doz., \$2.40; 50, \$6.50; 100, \$12.00.

BLOWER—Fruit large, jet black, good shipper, hardy, productive and of finest quality.

EARLY HARVEST—Its earliness, combined with good shipping qualities, make it very profitable. Compact dwarf grower, enormous bearer. Fruit medium size, black, of excellent quality.

LAWTON—The favorite market variety; large, good quality, uniform, hangs long on vine when ripe, productive and profitable.

BLACKBERRIES—VINING

Price: Two year old: Each, 25c; doz., \$2.40; 50, \$6.50; 100, \$12.00.

BURBANK THORNTLESS—This, as its name implies, is a creation of Luther Burbank and is highly recommended on account of it being a heavy yielder of very fine quality, with the added advantage of its being thornless.

HIMALAYA GIANT—A strong, rampant, trailing plant; very productive. Hardy, and thrives even under severe conditions. Fruit large, handsome and fine quality.

NEW MAMMOTH—No longer a novelty, but a proven success; the best family and market variety known. Strong grower of trailing habit, enormously productive; very early, fruit enormous, core soft and small, seeds small, flavor unsurpassed.

DEWBERRIES

The best and most dependable of all dewberries. Large, jet black and fine flavor. Price each, 20c; doz., \$2.00; 50, \$5.50; 100, \$10.00.

GOOSEBERRIES

One-year-old, each 25c; doz., \$2.50; 2-year-old, each 35c; doz., \$3.50.

OREGON CHAMPION—Berries very large, pale green; sweet, fine; bush strong, prolific bearer. This is the standard commercial sort for our section and is best for home use.

RED JACKET (Josselyn)—Large, smooth, prolific and hardy; best quality.

INDUSTRY—The large English variety dark red. Each 50c; doz., \$5.50.

Owing to an embargo on Gooseberries we cannot ship out of Washington.

LOGANBERRIES

Two year old: Each, 25c; doz., \$2.50.

RASPBERRIES—BLACK

Two year transplants. Each, 20c; doz., \$2.10; 50, \$6.50; 100, \$12.00.

CUMBERLAND—A healthy, vigorous grower, throwing up stout, stocky well branched canes that produce immense crops of magnificent berries. Fruit very large, firm, keeps and ships as well as any of the blacks. The most profitable market variety. Mid-season.

GREGG—For many years the leading standard best known market sort. Very productive, large size, firm, meaty berries, covered with heavy bloom.

KANSAS—Strong, vigorous grower, standing extremes of drouth and cold, and bearing immense crops. Early. Berries large; jet black, firm; of best quality; presents a handsome appearance.

PLUM FARMER—A few days later than Kansas; maturing the entire crop in a very short period, making one of the most profitable market sorts. The berries are thick-meated and firm. Berry large and very attractive when picked.

RASPBERRIES—PURPLE

COLUMBIAN—Very large, purplish color, rather soft; rich, sprightly flavor unrivalled for canning, making jam, jelly, etc.: wonderful vigor and productiveness. Unlike other raspberries, this variety does not send out any suckers. Two-year-old transplants. Each, 25c; doz., \$2.50.

RASPBERRIES—RED

Each, 15c; doz., \$1.25; 50, \$4.00; 100, \$7.50.

CUTHBERT ("Queen of the Market")—Berries very large, conical, rich crimson, very handsome, and so firm they can be shipped hundreds of miles by rail in good condition; flavor is sweet, rich and luscious. The leading market variety for main crop.

KING—Plant a strong grower very hardy and productive. Berry is firm, a good shipper; large size; beautiful bright scarlet color; ripens with the earliest.

MARLBORO—Large size, light crimson color; good quality and firm. Vigorous, hardy and productive. The best well tested, large early berry for the north.

ST. REGIS (Everbearing)—A genuine practical, profitable, continuous-to-fall bearing red raspberry. Fruit commences to ripen with the earliest and continues on young canes until October. Berries bright crimson, large size, rich, sugary, with full raspberry flavor. Flesh firm and meaty, a good shipper. This variety: Each, 20c; doz., \$2.00; 50, \$5.50; 100, \$10.00.

CURRANTS

One-year-old. Each, 25c; doz., \$2.50; 50, \$8.50; 100, \$15.00.

Two-year-old. Each 35c; doz., \$3.50; 50, \$12.50; 100, \$22.50.

Red

CHERRY—Very large; deep red; fine for preserving; valuable market variety.

FAY—The leading market variety. Extra large stems and berries, uniform in size, easily picked, exceedingly productive.

PERFECTION—Beautiful bright red, largest size, fine bunches on long stems, permitting easy picking without crushing. Quality rich, mild, sub-acid, with plenty of pulp and few seeds. Very productive, vigorous and hardy.

White

GRAPE—Very large; yellowish white; very mild acid; excellent quality and valuable for the table.

Under our present state law we are not allowed to ship currants out of the state of Washington on account of an embargo.

GRAPES

Black

CONCORD—Very extensively planted. Bunch and berries medium size; black, fair quality, good keeper. Vine hardy, healthy and productive.

One year old roots. Each, 20c; doz., \$2.00; 25, \$3.75; 50, \$6.50; 100, \$10.00.

Two year old roots. Each, 25c; doz., \$2.50; 25, \$5.00; 50, \$8.50; 100, \$15.00.

MOORE'S EARLY—Bunch large; fruit large; round, back, with heavy boom. Best early variety, hardy and productive.

WORDEN—An improved Concord, and next to it in popularity. Earlier, better quality and larger than Concord, equally hardy and healthy, but not as good a shipper. Best black grape for home use and nearby markets.

Green

MOORE'S DIAMOND—Bunches large; berry greenish white, flesh juicy; almost without pulp.

NIAGARA—Very hardy, strong grower; bunches large, compact. Berries large, round, light greenish white, semi-transparent. Skin tough, does not crack, quality good, melting and sweet.

Red

AGAWAM—Large berries, pulp soft and sweet, early.

DELAWARE—Bunches small, compact; berries rather small, round, thin skin, light red; flesh juicy, sweet, good.

LARGE VARIETIES—Tokay, Muscat and Malaga.

All Varieties of Grapes Unless Otherwise Quoted, One Year Old Roots, each 25c; doz., \$2.50; 25, \$5.00; 50, \$8.50; 100, \$15.00

Two year old roots. Each, 35c; doz., \$4.00; 25, \$7.00; 50, \$12.50; 100, \$22.50.

APPLES

SUMMER VARIETIES

Two and 3-year-old: Each, \$1.00 to \$2.00.

One year old, 5 feet: Each, 75c; doz., \$7.75.

One year old, 4 feet: Each, 65c; doz., \$6.50.

One year old, 3 feet: Each, 50c; doz., \$5.50.

Write for price on 50 and 100 lots.

EARLY HARVEST—Medium, pale yellow, tender, juicy.

RED ASTRACHAN—Large, beautiful deep crimson. The favorite, delightful, earliest eating apple.

YELLOW TRANSPARENT—Earliest and best; white, tender, juicy, sprightly, sub-acid. Grows rapidly, bears young and makes a profitable "filler."

RED JUNE—A brilliant red variety. Its distinct flavor has made it popular.

FALL VARIETIES

OLDENBURG—Rather large; light red streaks on yellow ground; tender and juicy; very hardy. Handsome appearance and good cooking qualities are two points in favor of this variety. Early autumn.

FALL PIPPIN—Large; rich yellow when ripe; flesh firm, juicy, aromatic; strong grower and long-lived. September.

GRAVENSTEIN—Large; yellow overlaid with red; flesh firm, juicy, sprightly subacid; productive. September to November.

MAIDEN BLUSH—Medium size; yellow with red cheek; very juicy, subacid; reliable cropper. September to December.

TWENTY OUNCE—Very large; yellow striped red.

SNOW (Fameuse)—Medium size; bright red deepening to almost purplish black in highly colored specimens; flesh white, juicy, aromatic; heavy yielder. October.

WINTER VARIETIES

BANANA—Large and showy; yellow, with pinkish red blush; flesh tender, heavy bearer.

BELLFLOWER (Yellow)—Large; yellow, with bluish cheek; juicy and delicious.

DELICIOUS—This variety ranks very high either for commercial or home orchards. Large; brilliant dark red; flesh fine grained, crisp, juicy with a delightful aroma; splendid keeper and shipper, heavy bearer.

JONATHAN—Red and yellow, tender, juicy and rich. Very productive; one of the best for table and market. Extensively planted, doing well even on comparatively low lands.

NEWTOWN PIPPIN—Yellow Newtown or Albemarle Pippin. One of the best quality apples, favorite in European markets where it brings fancy prices. Greenish yellow, large, juicy, crisp and aromatic. One of the best keepers and shippers. Moderate growth, good, regular bearer. Very profitable and extensively planted.

NORTHERN SPY—Striped red, large, sub-acid, tender, and juicy. Best desert apple known. Tree hardy and vigorous.

RHODE ISLAND GREENING—Large greenish yellow; flesh tender; rich subacid; bears regularly and abundantly.

ROME BEAUTY—Dark red striped, large, excellent quality; a market favorite, bringing good prices. Tree hardy, regular bearer, late bloomer.

WAGENER—Medium to rather large; beautiful bright red; flesh firm, subacid, well-flavored; annually productive.

WEALTHY—Medium to large; deep red, attractively marked; flesh white and juicy. Good bearer.

STAYMAN WINESAP—Medium size; yellow ground covered with red; flesh fine, crisp, and high-flavored; reliable and heavy cropper.

All apples same price. See quotation Summer Varieties.

APPLES—CRAB

HYSLOP—Large, deep crimson; one of the most beautiful; very popular. October to January.

TRANSCENDENT—Largest of the crabs; striped red, showy, excellent and very handsome. Hardy and strong grower.

SIBERIAN, RED—Small, bright red, covered with light bloom; fine flavor, excellent for preserving. Ripens September.

SIBERIAN, YELLOW—Large, beautiful, golden yellow. September and October.

Same price as apples.

APRICOTS

One year, 3 to 4 feet: Each, 65c; doz., \$7.00.
First grade, 4 to 5 feet: Each, 75c; doz., \$8.50.
Two and 3 year old. Each, \$1.00 to \$2.00.

J. L. BUDD—A strong, profuse bearer; large white and red fruit. Sweet and juicy. A desirable Russian variety. Very hardy and productive. Ripens in July.

MOORPARK—Very large; orange with reddish cheek; flesh orange, sweet, juicy, with fine flavor; very valuable. The best and most extensively planted apricot. Ripens early August.

ROYAL—Medium size, oval, sweet yellow, tree productive; excellent drying and canning variety. Ripens in July.

TILTON—Large, flesh firm, yellow, decidedly freestone. Tree vigorous, regular and heavy bearer.

CHERRIES—SOUR

Two and 3 year old selected. Each \$1.50.
One-year-old, 4 feet. Each \$1.25.
One-year-old, 3 feet. Each \$1.00.

EARLY RICHMOND—Medium, dark red, melting, juicy, sprightly, rich acid, best. June.

LATE DUKE—Large, light red, delicious fruits. Tree strong and upright, exceedingly productive. July.

MAY DUKE—Large, red, juicy, rich. June. Not so sour as some varieties, and very pleasant for sensitive teeth.

MONTMORENCY—Large, red, acid, exceedingly productive. Late June.

CHERRIES—SWEET

Two and 3 year old selected. Each \$1.75 to \$3.00.

One year old, 5 feet: Each, \$1.50; doz., \$15.00.

One year old, 4 feet: Each, \$1.25; doz., \$12.00.

One year old, 3 feet: Each, \$1.00; doz., \$9.50.

BING—Very large; dark brown, almost black; flesh firm, rich and delicious. Immense size; good shipper.

LAMBERT—Large size and fine quality; deep, rich red, almost black; flesh firm and flavor unsurpassed. Best shipping variety; regular and heavy bearer. Ripens late July, two weeks after Royal Ann.

ROYAL ANN—One of the best known cherries. Very large, firm, rich red and white; good for table, canning and shipping, and the best of all the red varieties.

TARTARIAN—Very large; black; tender. One of the most popular varieties.

PEACHES

Two-year-old. Each \$1.00 to \$2.00.

One year old, 4 to 5 feet: Each, 75c; doz., \$7.75.

One year old, 3 to 4 feet: Each, 60c; doz., \$6.00.

ALEXANDER—Medium, greenish white, nearly covered with rich red; melting, juicy, sweet. July.

ARP BEAUTY—Skin yellow and red, firm yellow, juicy flesh; excellent flavor; best early variety for family use; semi-freestone.

CHAMPION—Creamy white, splashed with carmine, with a blush of darker red; very juicy, sweet and tender; tree vigorous and very productive; has stood 18 degrees below zero and produced a full crop the following summer.

CRAWFORDS EARLY—A magnificent, large yellow peach of excellent quality. Its size, beauty and productiveness make it one of the most popular varieties.

ELBERTA—The great market peach. Large, handsome; orange-yellow, nearly overspread with red, much mottled; flesh yellow, firm but tender, mildly subacid.

J. H. HALE—Recently introduced, recognized as one of the finest market peaches; large size, fine quality, red cheek, yellow meated freestone, ripening with Elberta but a better tree and more productive.

TRIUMPH—Earliest yellow fleshed peach. Sure and abundant bearer; strong, vigorous grower. Fruit good sized; yellow with crimson cheek.

PEARS

Two and 3 year old. Each, \$1.00 to \$2.00.

One-year-old, 5 feet. Each, \$1.00; doz., \$10.00.

One-year-old, 4 feet. Each, 75c; doz., \$7.75.

One-year-old, 3 feet. Each, 65c; doz., \$6.50.

Write for prices on 50 and 100 lots.

BARTLETT—Large, buttery, juicy, high-flavored, great bearer. This sort has long been considered one of the choicest canning varieties, as well as a favorite for all other uses. August.

CLAPP'S FAVORITE—Very large; yellowish green to full yellow, marbled with dull red in the sun and covered with small russet specks; vinous, melting and rich.

FLEMISH BEAUTY—Large, surface slightly rough; greenish yellow and brown; flesh juicy, melting, very rich and sweet; tree hardy, producing good crops annually.

SECKEL—Small, but handsome and delicious; yellowish russet with a red cheek; flesh whitish, buttery, very juicy and melting; tree makes somewhat slow but stout and erect growth. Probably the richest and highest-flavored pear known.

PLUMS

Two or 3 year old selected. Each \$1.00 to \$2.00.

One year old, 5 feet, \$1.00; doz., \$10.00.

One year old, 4 feet, 75c; doz., \$7.75.

One year old, 3 feet, 65c; doz., \$6.50.

BURBANK—A favorite Japanese Plum, ripening in August. Large, round, mottled red and yellow; productive and profitable. Tree hardy and vigorous.

BRADSHAW—Very large, oval; dark violet red; juicy, sweet and good. A valuable market variety. August-September.

DAMSON—Small, roundish oval; dark purple; favorite for preserves. September.

PEACH—Large, roundish; brownish red; coarse grained, but juicy, pleasant, sprightly flavor. Freestone. Ripens July. Ranks first in popularity.

YELLOW EGG—A very large and beautiful egg-shaped plum; a little coarse, but excellent for cooking. Late October. Free grower, productive and hardy.

PRUNES

Two and 3 year old. Each \$1.00 to \$2.00.

One year old, 6 feet. Each 75c; doz., \$7.75.

One year old, 4 feet. Each, 65c; doz., \$6.50.

One year old, 3 feet. Each 50c; doz., \$4.75.

Write for price on 50 and 100 lots.

ITALIAN—Good size, purple, juicy, delicious, best for drying; separates freely from the stone.

FRENCH HUNGARIAN AND SUGAR—2 and-3 year old selected. Each \$1.00 to \$2.00.

One year old, 6 feet. Each, 75c; doz., \$7.75.

One year old, 4 to 6 feet. Each, 60c; doz., \$6.00.

One year old, 3 to 4 feet. Each, 50c; doz., \$4.75.

FRENCH OR PETITE—The well-known California favorite for drying. Medium to small, egg-shaped; violet purple; juicy, very sweet, rich and sugary. Prolific, heavy bearer.

HUNGARIAN—Very large, dark red, juicy and sweet. Its large size, bright color, productiveness and shipping qualities make it a profitable variety for home or distant markets.

SUGAR, NEW—Fruit ripens 28 days before the French; is four times as large and dries in half the time; flesh tender and rich in sugar; color dark purple. Early. August.

QUINCES

Two year old, 3 to 4 feet: Each, \$1.00; doz., \$10

CHAMPION—A prolific, constant and early bearer, oval fruit averaging larger than the Orange, quality equally fine, and a long keeper; ripens late.

ORANGE—Fruit large, bright yellow, of excellent flavor. October.

In addition to nursery stock listed we can supply you with ornamental trees and shrubbery.

Fertilizers

Most soils in the Inland Empire are yet fairly new. Their native or virgin fertility is not yet exhausted. There are, however, many different types of soils, some of which do not naturally contain very large supplies of the different elements of plant food needed by crops. Such soils are likely soon to "run out" and need application of fertilizers carrying the particular elements in which they are deficient. These can best be restored to or built up in fertility by the use of fertilizers to stimulate increased growth until the soils can be properly brought back into good condition.

Write for prices on all fertilizers, stating amount wanted, as prices may change.

NITRATE OF SODA—Contains 13 per cent Nitrate, in quickly available form. It is used for forcing crops like lettuce, celery, etc., as it makes a large growth of leaves and tops.

Apply the Nitrate of Soda by broadcasting it evenly over the entire surface of the vegetable field you are fertilizing, at the rate of 250 pounds per acre, before seeding, or planting, or transplanting.

Less than 50 lbs., 8c lb.; 50 lbs., at 6c; 100 lbs., at 5c; 1 bag, at \$4.50; 3 bags, at \$4.25; 5 bags, at \$4.00; 10 bags, at \$3.75. Bags weigh about 200 lbs and are sold gross weight.

FISH MEAL—A high grade fertilizer made of fish scrap, dried and finely ground. It is very high in nitrogen and phosphoric acid, and will produce wonderful results where a luxuriant top growth is desired, and where the offensive odor will not be objectionable. Use about 500 lbs. to acre when applied to row and 1,000 if sown broadcast. 100 lbs., \$5.25; 500 lbs., \$25.00; ½ ton, \$46.50; ton, \$90.00.

LAND PLASTER is not really a fertilizer, as it contains no plant food, but it causes a chemical change in the soil, releasing the potash which is already there in an unavailable form, and is very beneficial to clover, alfalfa, peas, beans, and other legumes, because of the sulphate it contains. It is sown broadcast at the rate of 100 to 500 lbs. per acre. 100 lbs., \$1.25; 500 lbs., \$5.50; ½ ton, \$10.00; ton, \$18.00.

SHEEP MANURE—Contains Nitrogen, Phosphoric Acid, Ammonia and Potash in liberal proportions. Produces immediate and lasting effect. Promotes steady and rapid growth.

FOR LAWNS—Pulverized Sheep Manure is the best possible fertilizer for the lawn. It should be applied liberally, as it will not burn and the cost is low. Recommend 100 lbs. to 2,000 square feet. No objectionable odor. 100 lbs., \$1.75; 500 lbs., \$8.25; ½ ton, \$16.00; ton, \$30.00.

PACKING HOUSE PRODUCTS

BLOOD DRIED—A very effective and quick acting form of nitrogen. Like Nitrate of Soda it must be used with care, and is best used in several light applications, but when properly used it is a very valuable fertilizer. It is blood, dried and finely ground. Use about 400 lbs. to acre when applied to the row and about 1,000 lbs. if used broadcast. 100 lbs., \$5.75; 500 lbs., \$27.50; ½ ton, \$52.00; ton, \$100.00.

BONE MEAL (Steamed)—A splendid fertilizer and for many purposes is the best and cheapest form of nitrogen and phosphoric acid. It is slow in action and there is no waste, as the plant food is released only as fast as it can be taken up by the roots of the plants. It may be used in almost unlimited quantities without danger of burning the plants, neither is there any loss from leaching, and an ideal lawn or rosebed is made by mixing large quantities of bone meal with the soil. It is used extensively in greenhouses, hotbeds, nurseries and for forming soil for potted plants.

Bone Meal will remain in the soil as a plant food for several years, the time depending somewhat on the fineness of the product and also on the condition of the soil. Use 500 lbs. to acre when applied to row and double this amount if used broadcast. 100 lbs., \$4.00; 500 lbs., \$18.75; ½ ton, \$36.50; ton, \$70.00.

TANKAGE—This gives off very little odor and is highly recommended as a reliable fertilizer. Use about 500 lbs. to acre for row application and about 1,000 lbs. broadcast. 100 lbs., \$2.50; 500 lbs., \$11.25; ½ ton, \$21.50; ton, \$40.00.

SPECIAL FERTILIZERS

FOR SPECIAL CROPS—While the amount and kind of fertilizer to use for any given crop depend somewhat upon the nature and condition of the soil it is a well known fact that certain crops require certain ingredients to feed upon, and unless these are supplied, the crop produced will only be a part of what might have been produced if the crop had been properly supplied with the elements that it required.

It is also a well known fact that a half crop requires about as much time, labor, and attention as a full crop, hence it is as expensive to produce a half crop as it is to produce a full one.

These facts being so, why then is it not a wise and safe course for the farmer gardener or orchardist to pursue to keep his land enriched, so that he may obtain a full 100 per cent returns instead of only receiving 50 per cent, knowing that his profits are not secured from his first returns, but from his returns after all expenses have been paid. For this reason we have stocked the following special fertilizers for the crops named, as we believe they are the most economical to use, and will produce greater results from the investment made than can be secured from the use of any other fertilizers.

BERRY FERTILIZER—2 nitrogen, 10 phosphoric acid, and 2 potash, is an organic material suitable for fall and spring application. The most successful berry growers apply from 1,000 lbs. to 1,200 lbs. per acre yearly when applied to the rows. 100 lbs., \$3.75; 500 lbs., \$17.50; ½ ton, \$33.50; ton, \$65.00.

General fertilizer, 2 per cent nitrogen, 10 per cent phosphoric acid and 2 per cent potash, is made up of half chemical and half organic materials for spring application to vegetables and is a general fertilizer for this purpose. Row application, 500 lbs. to acre. Broadcast, double this amount. 100 lbs., \$3.75; 500 lbs., \$17.50; ½ ton, \$33.50; ton, \$65.00.



This sunflower measured 15 feet 4 and 3/16 inches and is here shown as an illustration of what can be accomplished by using fertilizers. This was grown on Spokane gravel by Mr. T. H. Bowie, president of The Inland Seed Co., and did not receive any special care, but was fertilized. Use fertilizers as a means of increasing your income.

Clarke's Orchard Dressing, 6 nitrogen, 10 phosphoric acid, and 4 potash, is a balanced ration orchard fertilizer which has made immense increases in the quality and quantity of fruit and represents a well balanced food which makes well balanced wood growth and increases fruit production. This material is carefully ground and cured ahead of the season in order to be highly efficient. We go to the unusual expense of incorporating a large quantity of soot for the purpose of supplying carbon which has proved immensely beneficial. Use one pound per year age of tree up to 12 years. 100 lbs., \$4.75; 500 lbs., \$23.00; 1/2 ton, \$45.00; ton, \$88.00.

Potato Special, 2 nitrogen, 10 phosphoric acid, and 4 potash. This is a mixture especially prepared of materials which tend to decrease the spread of scab. Soot and potash salts are especially included in this mixture to assist in reducing this pest. Hill application 700 to 800 lbs. 100 lbs., \$4.00; 500 lbs., \$18.75; 1/2 ton, \$36.00; ton, \$70.00.

Tomato Special, 3 nitrogen, 8 phosphoric acid, and 6 potash, is a material especially designed to make large quick maturing fruit which is solid and will ship well. Row application, 500 lbs. to acre, but more than double this amount if used broadcast. 100 lbs., \$4.75; 500 lbs., \$22.50; 1/2 ton, \$43.50; ton, \$85.00.

Quotations on fertilizers are prices prevailing Dec. 1, 1923, but as these are liable to change our prices may advance or decline. therefore it is better to write for prices stating amount wanted.



ODORLESS—CLEAN—EFFICIENT

For Lawns, Flowers, Gardens, Shrubs, House Plants, Fields and Orchards.

A 25-lb bag covers a lawn space of 1200 square feet. Lasts a year or more.

A tablespoonful to hill of potatoes, tomatoes or ordinary rose bush means abundant flowers, crisp and early vegetables.

A teaspoonful for 6 to 8 in. potted plant.

The small amount that it is necessary to use. makes Gromore one of the most economical fertilizers. 1 lb. pkg., 25c; 2 lb., pkg., 45c; add postage; 25 lb., bag, \$2.75, add postage; 125 lb. bag, \$12.50. We do not break packages. Send for free booklet.

As it is impossible for us to quote with any degree of certainty on fertilizers, we ask that you write for prices, stating amount wanted.

STIM--PLANT
PLANT STIMULANT TABLET

These tablets contain highly-concentrated, immediately available forms of plant food.

They increase production, hasten maturity, improve quality and better the color of the plants and products.

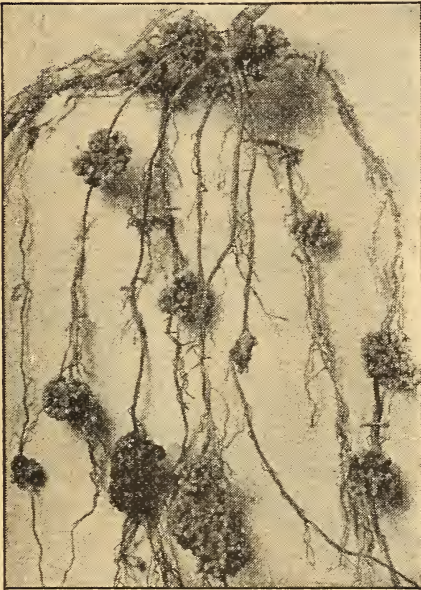
Each tablet contains 26 grains with guaranteed analysis of 11 per cent nitrogen, 12 per cent phosphoric acid and 15 per cent potash. When used in liquid form dissolve four tablets in one gallon of water. When used in tablet form drop part or whole tablet into hole made by dibble and cover with soil; in liquid form use directly on soil; do not touch foliage or stems.

For pot plants, place from $\frac{1}{4}$ to 1 tablet to each plant according to size of pot. As a mild stimulant dissolve 1 tablet in the water used on the plants once or twice a week. On greenhouse, hotbed and cold-frame plants use a tablet or a portion of one to each plant or place one every foot apart each way in the

plant bed. For garden crops grown in drills, use 1 tablet to each foot of row. On plants grown in hills use 1 tablet to each hill.

For flower beds and borders use 1 tablet to every square foot of surface through the bed. On bush or small fruits use 3 to 5 tablets at each application. For fruit and ornamental trees place a tablet every one to two feet apart each way, using them in a radius from the trunk to a foot beyond the outer overhanging branches. In shrubby plantings, insert 1 tablet to each square foot of planted surface or apply 3 to 5 to each plant. Box of 30 tablets, 25c, postpaid 30c; 100 tablets, 75c, postpaid 85c. Pails, 1,000 tablets, \$3.50, postpaid \$3.75.

SEED INOCULATION



Nodules or Nitrogen Sacks
Produced with Inoculation.

Soil and crop experts agree that for best growth, and to put atmospheric nitrogen in the soil, it will pay all farmers to inoculate all legumes, even where they are at present successfully grown. The cost is trivial when compared with the profit it will bring you. Legumes are clovers, peas and beans, alfalfa, soy beans, vetches and other plants that grow their seeds in a pod. Their roots are the home of bacteria that draw fertility-building nitrogen from the air and store it in swellings on the roots, called nodules. These nodules not only feed nitrogen to the crop they are on, but rot away in the ground and supply valuable nitrogen to the soil for future crops of corn, wheat, cotton, oats, fruits, etc.

Inoculating Bacteria may be carried in two ways—on jelly media or soil media and we offer what we consider the best of each kind.

Farmogerm

Is in bottles, patented ventilating stopper, guaranteeing it to be fresh on the acre basis.

DIRECTIONS, HOW USED—Fill the bottle three-quarters full of water, shake thoroughly to break up the jelly, and apply contents to the seed by mixing until all the seed becomes moistened. Allow the seed to dry and then plant in the usual manner.

Humogerm

Is sold in cans on bushel basis. Easy to apply; direction on each package; will give thorough inoculation.

DIRECTIONS—Place seed in pile, moisten slightly with water and a little sugar, pour on HUMOGERM, and plant in usual way. This gives thorough inoculation, and is cheaper, safer and better than the discredited, laborious soil transfer method.

PRICES

FARMOGERM—Acre Basis

1-acre size.....\$1.00; postpaid, \$1.10
3-acre size.....\$2.50; postpaid, \$2.65
Garden size for peas, beans and sweet
peas50c; postpaid, 60c

HUMOGERM—Bushel Basis

$\frac{1}{2}$ -bushel size.....\$0.60; postpaid, \$0.70
1-bushel size..... 1.00; postpaid, 1.10

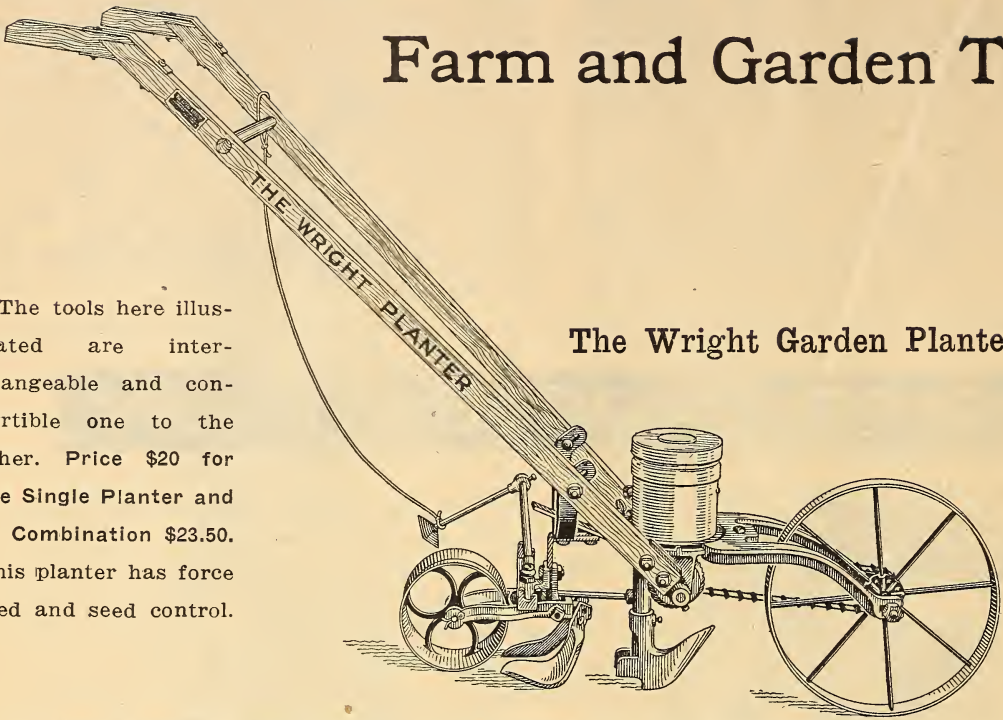
Specify the kind of seed you wish to inoculate. Order Farmogerm by the acre; Humogerm by the bushel of seed to be planted.

Farm and Garden Tools

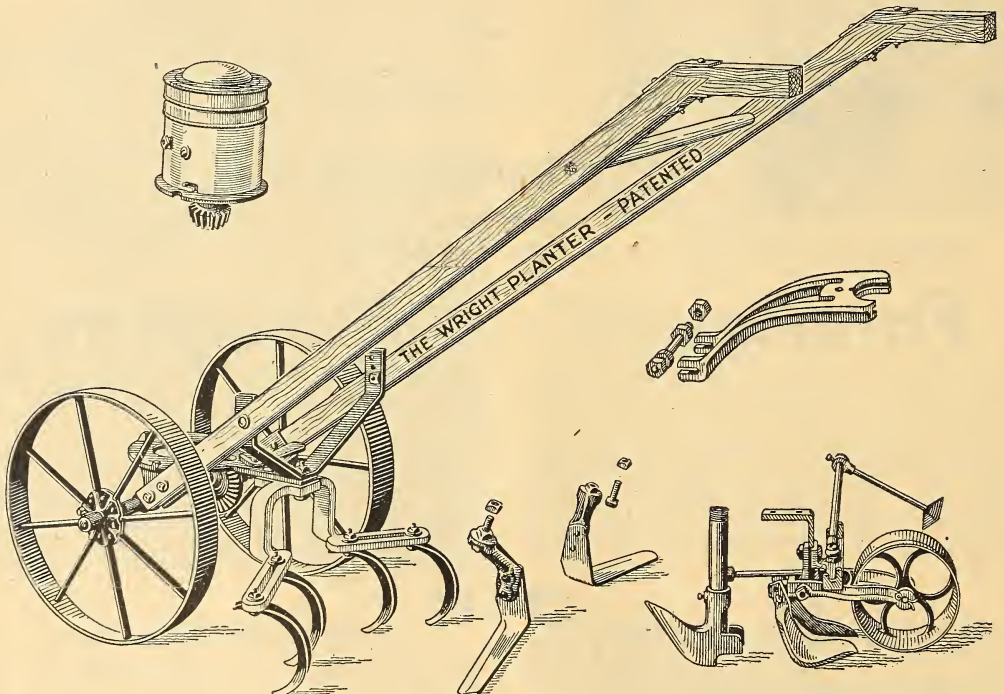
The tools here illustrated are interchangeable and convertible one to the other. Price \$20 for the Single Planter and in Combination \$23.50.

This planter has force feed and seed control.

The Wright Garden Planter

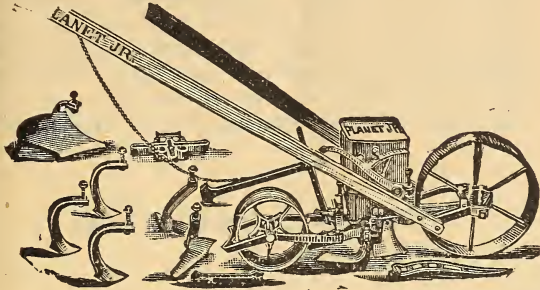


The seed dispensing mechanism of this machine comprises a system of plates which are carried in the compartment cover of the seed box. All are numbered and by reference to the seed planting table the operator can readily and quickly adjust a plate for the planting of seeds of almost any kind. Also the seed box can be removed from the machine by the simple turn of a thumb screw and thus easily emptied when it is desired to shift from one variety of seed to another.



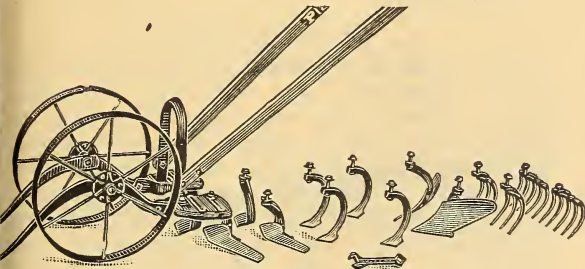
Planet Jr.'s

Space will not permit our showing and describing all of the "Planet Jr." Tools, but we will send a full illustrated catalog free for the asking to any one desiring it, and we can supply promptly anything ordered. "Planet Jr." goods are standard machines, the best on the market. Owing to the present unsettled market conditions, the manufacturer reserves the right to change the following prices on Planet Jr. Tools. We therefore reserve the same right.

No. 4 Planet Jr.

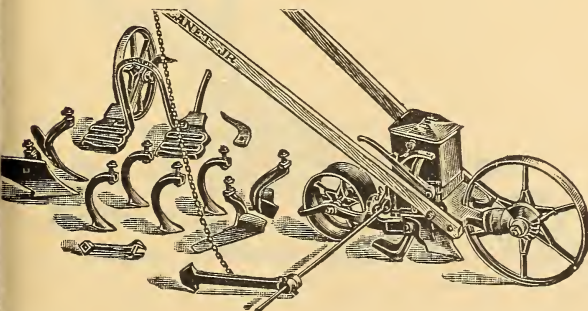
This is the most popular combined tool made. It combines in a single implement a first-class, hill-dropping seeder, a single wheel hoe or weeder, a cultivator and a plow. The hopper holds two quarts of seed, which can be sown in continuous rows, or dropped in hills, at 4, 6, 8, 12 or 24 inches apart.

The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe. It is useful almost every day of the season, at every stage of the garden work. With this one implement the small farmer can do practically all the work in his small crops. Price complete, \$22.50; Seeder only, \$18.00.

No. 11 Double Wheel Hoe

This is the greatest cultivating tool in the world for the onion and sugar beet grower, and also for every grower of garden crops.

They can do more work and do it better and easier than can possibly be done in any other way. One pair 6-inch hoes, one pair 4-inch hoes, two pairs hollow steel cultivator teeth, one pair plows, two 3-tooth rakes, two 5-tooth rakes, and two leaf lifters. Price \$17.50.

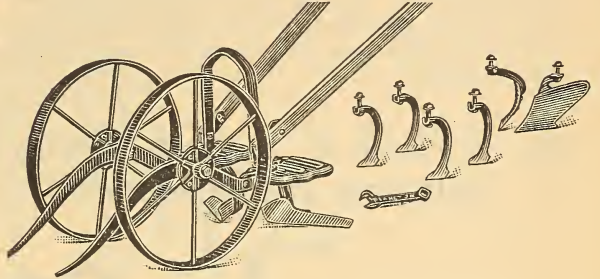
No. 25 Planet Jr.

This combined machine is intended for gardeners who have a large enough acreage in crops for a double wheel hoe to be used to good advantage, and prefer not to buy separate machines.

As a drill it is almost identical with the Planet Jr. No. 4 Drill, and is thoroughly sub-

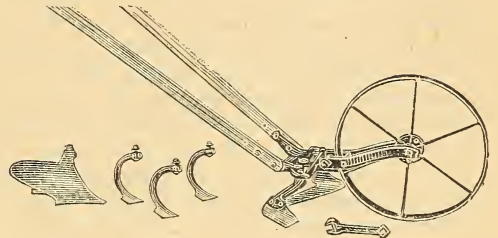
stantial and accurate in sowing all kinds of garden seeds in hills or drills.

As a wheel hoe it is identical with the Planet Jr., No. 12 Double Wheel Hoe, the very best machine on the market. The change from drill to wheel hoe takes but a moment and the whole combination is one we can heartily recommend and guarantee satisfactory. Price \$27.85.

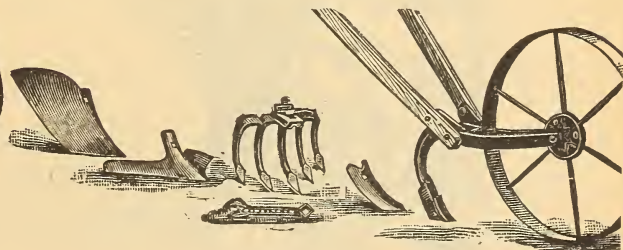
No. 12 Planet Jr.

No. 12 runs either astride or between the rows; kills all the weeds and leaves the earth in fine shape. Then, too, it's easy to work.

It has a pair of 6-inch hoes, a pair of plows for opening or covering, and a set of four all-steel cultivator teeth. The tools shown are what gardeners use most and others can be added as wanted. Price \$13.75.

No. 17 Planet Jr.

A very popular single wheel hoe that does practically the same work as a double wheel hoe, but is lighter. Wheel can be placed on outside of wheel arm to work both sides of the row at one time. With the plow, all the necessary plowing, opening and closing of furrows for seed, fertilizer, etc., and hilling of plants can be done. The six-inch hoes break up the soil, produce a mulch and are sure weed killers. Three steel cultivator teeth are constantly useful in all your garden cultivating. Equipment: One garden plow, three steel cultivator teeth, pair of six-inch hoes. Price \$9.50.

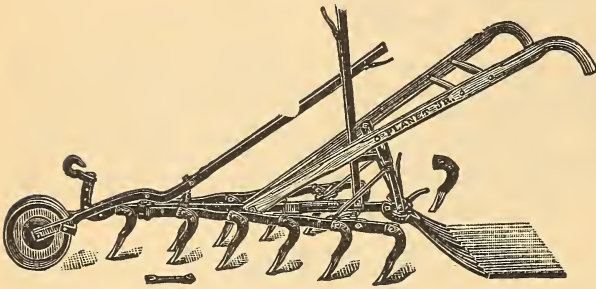
No. 19 Planet Jr.

No. 19—This attractive implement is especially designed for the farmer's garden work, though it offers to every one with either field

or garden a cheap and effective tool for wheel-hoe operations. The great variety and fine shape and quality of the tools makes the implement light running and effective. It is strong, well made, and quickly adjusted. The height of the handles can be changed to suit man or woman, boy or girl. Price \$7.50.

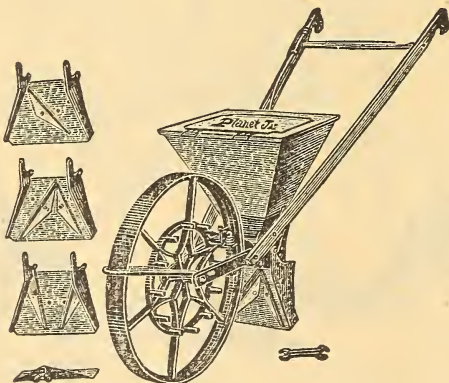
PLANET JR.'S EXTRAS—6-inch hoes, \$1.50 per pair; 7-inch hoes, \$1.60 per pair; 8-inch hoes, \$1.75 per pair; 3-tooth rakes, 65c each; 5-tooth rake, 85c each; 7-tooth rake, \$1.00 each; cultivator teeth, each 65c. Weight of each, 1 lb. Add postage.

No. 90 Planet Jr. 12-Tooth Harrow Cultivator and Pulverizer



With the 12-tooth harrow here shown you go as deep or shallow as you like, come up close to row without injuring plants, cut out all the weeds, stir the soil and mellow and fine it as with a garden rake. You widen and narrow as you please between 12 and 32 inches. An invaluable tool in the market garden, truck and strawberry patches. Has new steel wheel which prevents clogging. Its 12 chisel-shaped teeth cut out all weeds, stir and mellow the soil and leave the ground in the finest condition without throwing dirt on plants. Complete as shown, \$23.00.

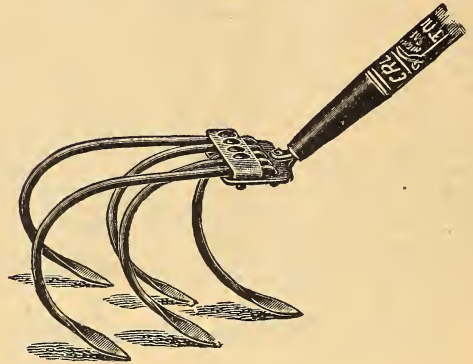
No. 20-D Planet Jr. Fertilizer Drill



Save fertilizer. Don't broadcast it all before planting seed, but distribute only a portion

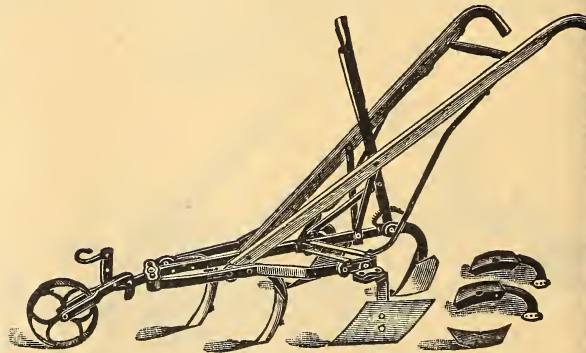
then, and later, when the crops are up, side-dress with a good, quick-acting fertilizer—using the No. 20-D Drill to distribute it. This will produce quicker and more tender crops, which will bring better prices. Give your crops plant food when and where they need it most with the No. 20-D Fertilizer Drill. Price, \$35.00.

5-Prong Cultivator Hoes



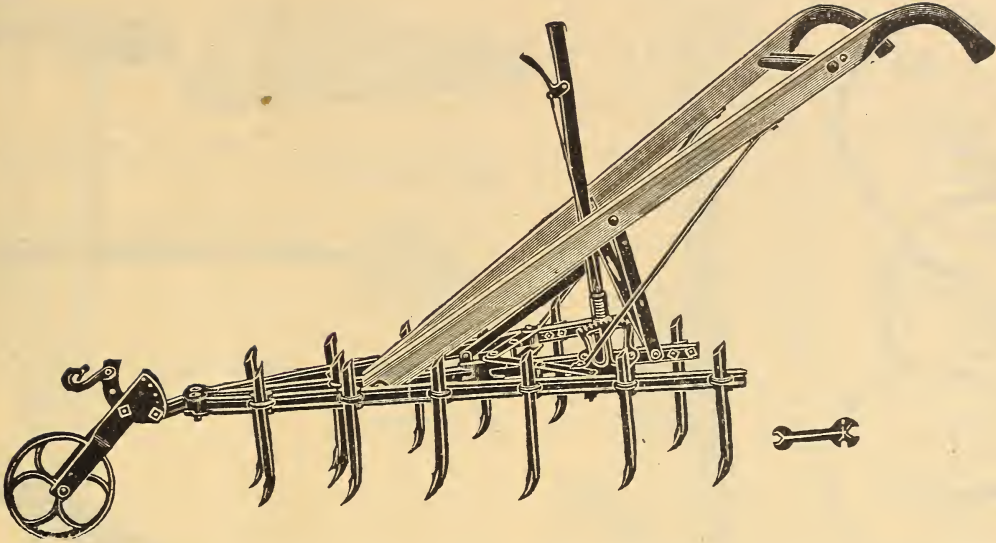
Two prongs are changeable for rows of any width. Loosening nuts, releases the prong. Works between rows or center prong can be removed and rows straddled. A perfect weeder and pulverizer, giving level cultivation. Removing center prong and reversing other four makes it a Potato Digger. Head made entirely of steel. Light, well made, serviceable. Blue finish, 4½ foot handle. Weight 4 lbs. Price \$1.25. Add postage.

No. 2—5-Tooth Cultivator

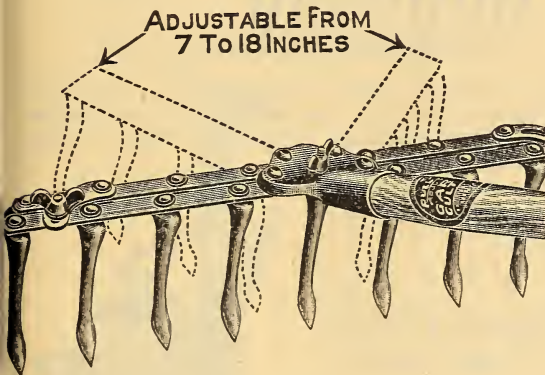


For garden, truck patch, orchard or field work. This tool is finely built throughout. Frames are high carbon steel, and are made extra long to avoid clogging in narrow rows. Standards high, reducing draft, and adjustable to change pitch of shovels. Price \$11.75.

Fourteen-Tooth Cultivators



Special strong toothbars. Teeth are duck-bill shape—reversible pointed, adjustable up or down to change suction. Price complete as shown, \$10.00.



Adjustable Garden Cultivator

A patented groove slide, secured by handy thumb screws, allows the working width of the Cultivator to be varied from 7 to 18 inches. When the plants are young, the middle tooth can be removed by the simple loosening of a thumb screw, allowing the plants to be straddled and two rows worked at once.

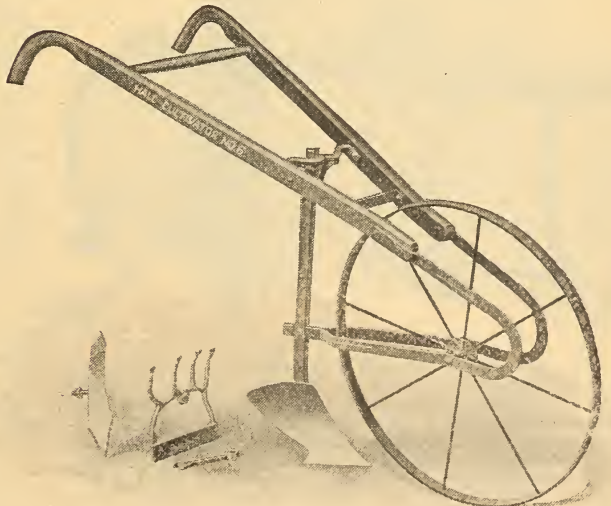
Every part is of the best material, the teeth are drop-forged steel, set in an indestructible plate. The handle is perfectly smooth, of straight-grained, tough white-ash.

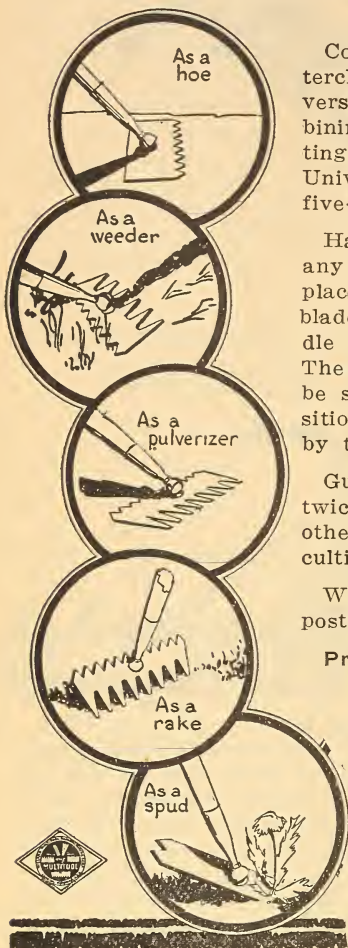
Weight 4 lbs. Length of handle, 4½ feet. Price, \$1.50. Add postage.

Garden Plow

The swing frame feature gives it a hang and balance, which makes it the easiest running plow you ever saw. Instead of pushing against the axle, the curved handle applies the power ahead of axles, making a more steady and even draft.

Handles easily adjusted for easy working height for any person. Just loosen one thumb screw. Adjustable draft for light or deep cultivation. Extra heavy, 24-inch wheel, oval spokes, ¾-inch. Bushed to prevent binding. Best hardwood handles, well-finished. Weight, 25 lbs. Price \$6.00.



"THE MULTITOOL"**The Ball-Bearing Hoe**

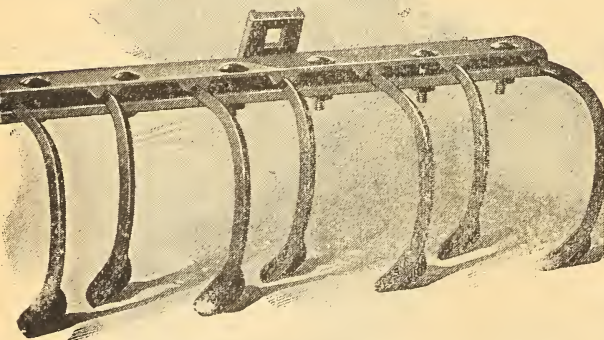
Consists of five interchangeable and reversible blades combining eighteen cutting edges with a Universal joint and five-foot handle.

Handle adjustable to any angle by merely placing the foot on blade and turning handle to loosen joint. The handle can then be set to desired position and made rigid by tightening.

Guaranteed to do twice the work of any other hoe or hand cultivator.

Weight 4 lbs. Add postage.

Price, \$4.50.

Cultivator Attachments

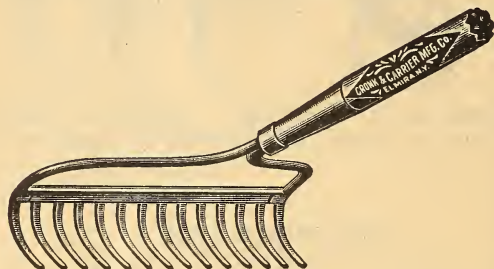
Here's a seven-prong cultivator attachment. Every man who owns a garden plow should have one. Prongs are made of best forged blades, and each prong can readily be removed. Attachable to any standard plow on the market. Permits a scope of cultivation impossible with stationary prong cultivators. Width 12 inches. Weight, 3 lbs. Price, \$1.25. Add postage.

GARDEN TROWEL

Good steel trowel. Price, 20c, 25c, 50c; post-paid, 25c, 30c, 55c.



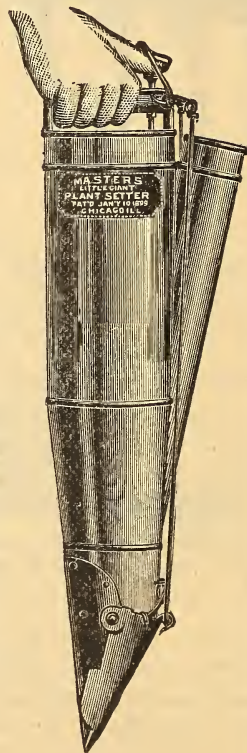
Solid socket, polished blades, bronze finish; 4 1-3 ft. handles. Weight, 3 lbs. Each, 75c. Add postage.



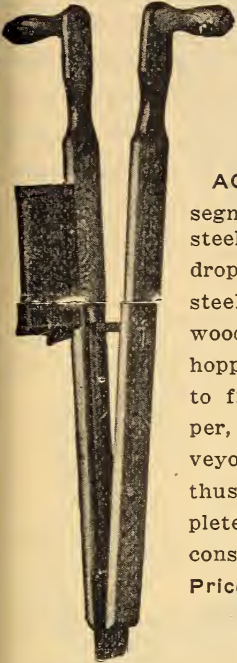
The flanged head is electrically welded to the bows. Curved teeth, capped ferrule, bronze finish; XX handles, 14 teeth. Each, \$1.25. Will not go by mail.

Master's Rapid Plant Setter

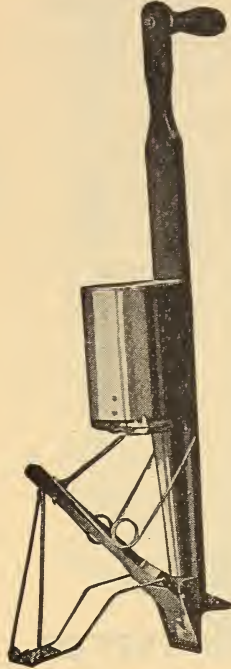
Each plant is SET, WATERED and COVERED in one operation without any stooping and no lame backs. A man simply walks along in an upright, comfortable position and will set from 8,000 to 15,000 plants per day and never have to bend his back. It does perfect work. The roots of each plant are put into the ground in a natural position and firmly set by the absorption of the water. Weight, 6 lbs. Price, \$6.00. Add postage.



Corn Planters

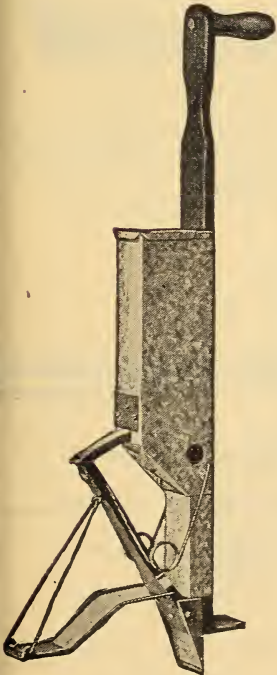


ACME OR TRIUMPH—The segmental slide is of pressed steel, adjustable to vary the drop. The jaws are of pressed steel securely riveted to hardwood sides, and the cover of hopper is also steel with hinges to fit over the top. The hopper, hopper bottom and conveyor tube are of pressed steel, thus making the planter complete, without a casting in its construction. Weight 5 lbs. Price, \$1.50; add postage.



ACME ROTARY AUTO-MATIC — Pressed steel hopper. Hopper cup conveyor, depth gauge, dump, foot and cut-off box. Cast frame (or basket). Disc or seed plates are adjustable by means of a thumb nut to suit various sizes of kernels. Used in one hand like a walking stick. Disc is set for correct number of kernels by loosening thumb nut, moving star until pockets are of right size, then tightening thumb nut again. Plunge planter into the ground, work forward to trip seed, and withdraw. Double coil spring automatically rotates disc and closes jaws, thus filling same for next hill. Wt. 6 lbs. Price \$2.75. Add postage.

POTATO PLANTERS



ACME SEGMENT—Automatic slide type. Segmental pressed steel slide, adjustable for number of kernels, running in segmental steel track. Chinese bristle brush cut-off. Double soil spring, adjustable depth gauge, fixed dump lever, galvanized hopper with hinged cover, galvanized seed spout. Can be used also for planting beans. Pumpkin seeds may also be planted by operator dropping seed into hole in spout. Weight, 5 lbs. Price, \$2.00. Add postage.

POTATO PLANTERS



ACME SELF-LOCKING TUBULAR—The jaws are formed from bright steel dipped in a special preparation to prevent rust. The lock is secured by the front jaw slipping down $\frac{3}{8}$ of an inch, which causes a pair of studs on its upper corners to slip over corresponding shoulders in the rear jaw. When thrust into the soil to deposit the seed, the front jaw is pushed up, releasing the lock. Galvanized iron taper conveying tube. Wt. 6 lbs. Price, \$1.90; add postage.

Seeds. Growing and selling seeds is our business. Our reputation has been built up by sell-

ing seeds of the finest quality obtainable. Not how cheap, but how good, is our motto.

POTATO PLANTERS

ACME WIRE TUBULAR—Strong hardwood handle, set into malleable iron socket securely riveted to back jaw. Foot plates provided on socket. Adjustable dump or depth gauge. Wire mesh conveying tube by which each seed can be seen when passing through the tube.

Weight, 6 lbs. Price, \$2.00. Add postage.

PINGREE OR ACME—Is practically the same as the Acme Tubular without the tube down the handle. You lift the planter up and drop the potato in the lower part. It is light and a very satisfactory planter. Weight, 5 lbs. Price \$1.25; add postage.

CORN KNIVES

A very convenient and excellent tool. Mailing weight, 2 lbs. Price, 75c; add postage.

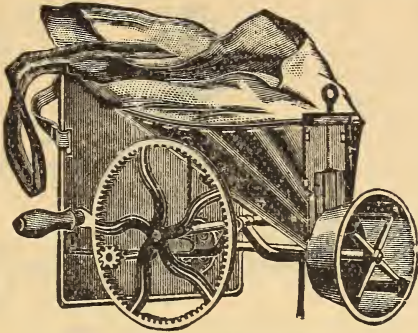
CORN KNIVES

NO. 6 SPECIAL STEEL—Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21½ inches. Number of rivets, 3. Weight, 2 lbs. Price, 75c. Add postage.

GRASS SEEDERS

WHEELBARROW—They run easily, and sow evenly in windy weather. The quantity of seed sown is accurately governed by the wheel, which moves correspondingly slow or fast as the machine runs over the ground. This seeder is constructed on up-to-date principles. It has a strong steel wheel, 32 inches in diameter, with an inch and a quarter by one-quarter inch steel tire, is operated by a device that engages the wheel close to the hub, having a level and working correspondingly easy. It is instantly thrown out of gear, and the amount of seed sown is quickly governed by changing the pin in the index plate as thereon indicated. This seeder does not injure or bunch the seed, but evenly distributes it in the full length of the hopper, 14-ft. spread. Price, \$13.50.

CAHOON
—The standard broadcast seeder, and one of the best made. Sows all kinds of grain, clover, timothy and heavy seeds. Very simple in its operation and sows 4 to six acres an hour at a usual walking gait.



Cahoon Broadcast Seeder

Distributes seeds uniformly in one-fifth the time required by hand. Weight, 8 lbs. Price, \$5.50; add postage.



IMPROVED CYCLONE

Has a Slope Feed Board—This feature is found in no other Sower, as the Improved "Cyclone" is the only Hand Seed Sower that is framed together with a slope feed board. This is a marked improvement over the single-board type, as it insures a filled hopper always, until seed is exhausted.

Triple Gears—are all adjustable.

Automatic Feed Shut-off—starts or stops flow of seed instantly.

The Improved "Cyclone" is guaranteed to sow perfectly all seed that can be sown broadcast, such as clover, timothy, millet, flax, wheat, oats, alfalfa, etc., etc. Weight, 5 lbs. Price, \$2.50; add postage.

Planet Jr. Seeder Attachment



Fits all Planet Jr. Wheel Hoes and Garden Plows, except the Fire Fly. Sows a five-cent packet of seed as economically as a full hopper, at the proper depth and thickness, which produces a uniform stand. Price \$7.25.

Pumps

THE MAGIC SPRAY PUMP

Magic Pumps represent a principle in construction found in no other spray pumps.

This construction means maintaining the high pressure that is absolutely essential with only two-thirds of the labor necessary with any other pump.

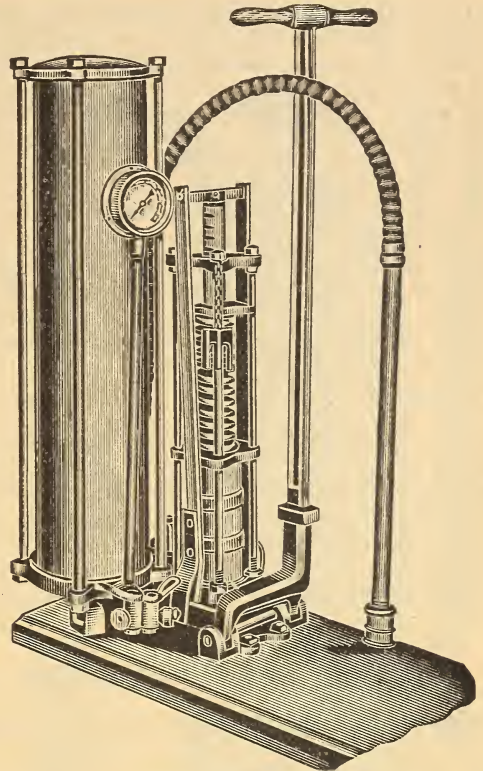
In addition to the overwhelming superiority the Magic and other Bean Spray Pumps are the only ones which—

Have non-corrosive porcelain cylinders, 3-inch;

Have no stuffing box or outside packing.

Have 5 1-16 inch bell metal ball valves with reversible and removable seats;

No threads inside the valve;



Magic Spray Pump

Have a powerful spring, which is so used as to save one-third the labor;

Weight, 220 pounds.

PUMP ONLY—With gauge, double cut-off, suction hose and strainer, \$65.00. For price of rods, cut-offs, nozzles and hose see pages 84-85.

SPRAY GUNS



Pilot Spray Rod



Giant Spray Gun

PILOT SPRAY ROD—The Pilot Spray Rod is a highly improved spraying gun, suitable for use either with power sprayers or the larger size hand outfits. Two or three of these can be used either with a power sprayer or the large size hand outfits. The operation of the Pilot Rod is identical to that of the Bean Giant and Bean Pony Spray Guns, excepting that it has a smaller capacity and a different system of controlling the nozzle, and is driven much further than with the ordinary bamboo extension rods and nozzle. The Pilot Spray Rod throws a heavy penetrating mist or a long-distance spray. This is an excellent spray gun for the small or medium size orchard.

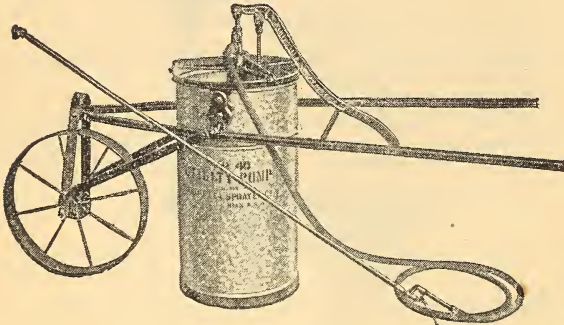
Price \$5.50. Weight 5 lbs. Add postage.

GIANT SPRAY GUN—Eliminates entirely the use of spray rods. One man can spray as rapidly and more efficiently with this gun than two or three men with ordinary spray rods and nozzles. Half-inch hose is too small and reduces the pressure considerably.

Price, \$7.50. Weight, 6 lbs. Add postage.

UTILITY SPRAY OUTFITS

This Outfit Is Light, Compact, Easy to Operate



No. 40.

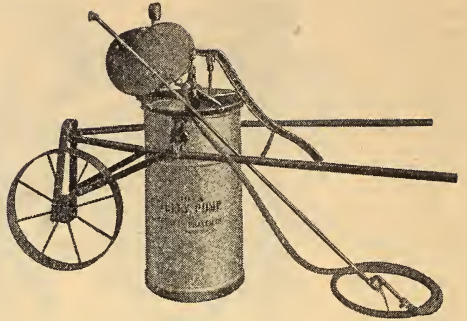
Very useful for painting, whitewashing, and spraying warehouses, factories, barns, trees and greenhouses.

TANK is larger than most similar outfits, made of heavy galvanized iron, re-inforced at top and bottom with heavy band iron rings. Capacity, 18 gallons.

PUMP—The cylinder is made of heavy brass tubing and has brass plungers packed with specially treated cotton wick to resist action of chemicals; can be tightened or expanded without removing from cylinder. Valves and all parts that come in contact with liquids are brass. Iron handle of good length makes pumping easy; 175 pounds pressure is easily maintained. Mechanical agitator keeps liquids thoroughly mixed. A fine strainer at suction end prevents sediment getting into working parts of pump.

FRAME substantially built of steel, well braced and balanced.

Price \$30.00.



No. 40A

No. 40A—Same in construction as No. 40, but equipped with an air pressure tank mounted on pump casting. This makes a one-man outfit. By obtaining 250 pounds pressure considerable spraying can be done without pumping. Price, \$45.00.

The Success Bucket Spray Pump

All Brass Working Parts, with Indestructible Bronze Valves, Malleable Iron Foot-Rest.

This outfit is a most excellent one for ordinary use in garden, vineyards and orchards; for washing windows and buggies and for the application of whitewash. The pump has a large air chamber and is double acting, throwing a continuous stream either solid or in fine spray. It is provided with Bordeaux nozzle and four feet of discharge hose. Weight, 8 lbs. Price, \$8.50. Add postage.



Lowell Bucket Pump

The "Lowell" is double acting, discharging one-half the solution on both the up and down stroke, thus giving a continuous spray. Will develop a good pressure; is easy to operate; is practically non-breakable and will last for years.

SPECIFICATIONS

PUMP. All working parts of pump are brass, including cylinder, plunger tube, plunger valve seats and valve caps. The valves are 9/16-inch solid bronze balls. Nothing to rust or corrode. The ball valves insure free movement of the liquid, and are practically nonclogging.

AIR CHAMBER: The hollow plunger tube acts as an air chamber.

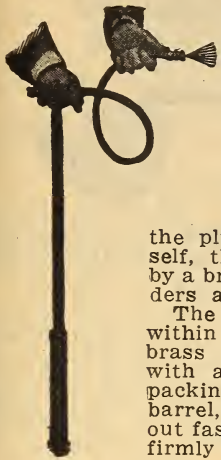
HANDLE: Is made of malleable iron.

HOSE AND NOZZLE: Our own special designed nozzle is used with 3 feet of 3/8-inch hose.

FOOT REST: Is of malleable iron, 13 inches high, and clamps to cylinder of pump.

Price, \$6.00. Weight, 9 lbs. Add postage.





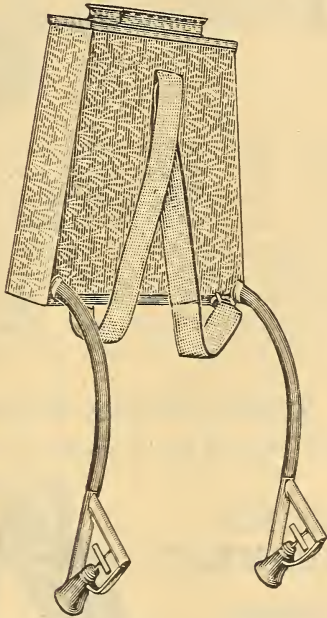
The Ideal

This pump does away entirely with the objectionable foot-rest, clamps, leather suction, packing, etc. It requires no fastening of any kind and holds itself down and works anywhere and everywhere. All the operator need do is to press the plunger down. It rises of itself, the upward stroke being made by a brass spring forcing the cylinders apart.

The all-brass suction working within a brass cylinder with all brass valves, does away entirely with all leather, rubber, or other packing. Will pump from a pail, barrel, tank, spring or creek. Without fastenings of any kind it stands firmly wherever placed.

Weight, 5 lbs. Price, \$4.00; add postage.

KNAPSACK



Galvanized steel tank, 4 in. by 18x18. Adjustable carry-strap of 13-cord halter web, non-splashing cover, two all-brass spray nozzles and automatic positive cut-off. Three-quarter inch garden hose connection to tank. Great economy of time and labor in the use of this sprinkler, as two rows of potatoes or other low growing plants can be sprayed at one time. Nozzles operate automatically.

You don't have to pump—your arms hang naturally at your sides. All you have to do is to operate the spray-valve with a slight grasp of the hand.

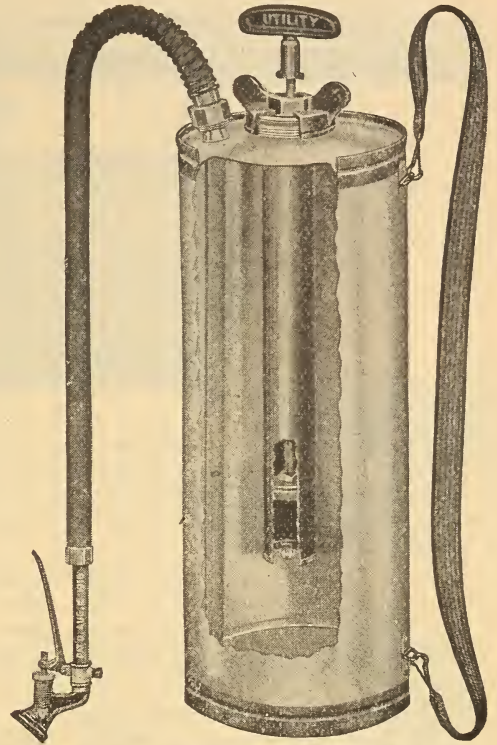
There is no waste of solution, for the spray-nozzles automatically cut off the flow when you release your grasp. Price, \$5.50.

Capacity, 5 gallons. weight, 10 lbs. Add postage.

Utility Compressed Air Sprayer

Tank—Size, 7½ by 20 inches; capacity, 3½ gallons. The convex flanged ends of 20-gauge material, the closely riveted and well soldered

cylinder, double folded at top and bottom, makes the tank very strong. The standard hose connection permits the attachment of any



Utility Compressed Air Sprayer

garden hose and the brass filler opening is of ample size for filling without use of funnel. The tank should not be filled more than three-quarters full, to allow sufficient space for compressed air.

Pump—The plunger is fitted with a well-formed high-grade leather and operates easily in a heavy brass cylinder 1¼ inches by 15 inches long. The bronze ball check, seating on brass, will not deteriorate like rubber or leather. The pump seals the tank opening with a threaded cap which can be removed without use of wrench.

Hose—½-inch, 5-ply, 24 inches long, on standard hose connection with wire coil that prevents kinking, nozzle pipe and hose connection cemented into hose and fastened with brass ferrules.

Nozzle—Angle automatic, self-closing type, made of brass, equipped with strainer and two extra spray discs.

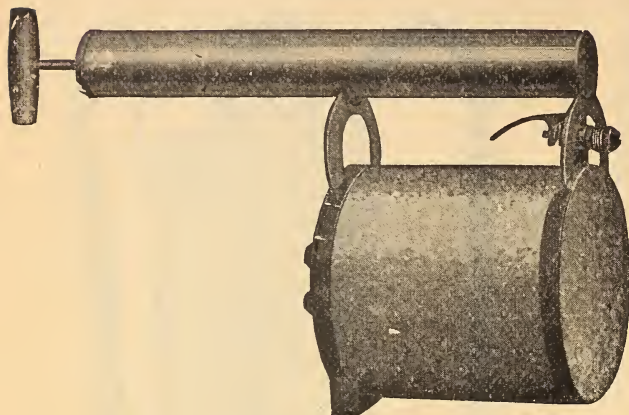
Galvanized tank, \$7.00; brass tank, \$9.50. Weight, 11 lbs. Add postage.

Inland Powder Sprayer



In some sections potato growers, stock and poultry raisers prefer to use Paris Green and disinfectants in powder form, mixed with dry plaster. To meet such a demand the "Blow" Sprayer is recommended. This will be found to be one of the best powder sprayers on the market and will give entire satisfaction. Weight 2 lbs. Price, \$1.00. Add postage.

Inland Business Compressed Air Sprayer



The Inland Business Sprayer is a compressed air sprayer giving a fine, continuous spray; so fitted with a powerful pump, that by an occasional stroke of the plunger the air pressure is easily retained.

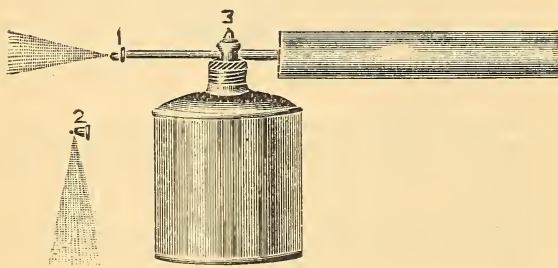
The tank is made of heavy galvanized steel, fitted with an air pump of heavy tin plate, and all spray tubes and nozzles of solid brass.

Pump cylinder $14\frac{1}{2}$ inches long by $1\frac{3}{4}$ inches in diameter.

Plunger rod of $\frac{1}{4}$ inch bright steel; our special type plunger; bumper washer securely soldered.

Capacity, one gallon. Weight, 3 lbs. Price, \$3.25. Add postage.

Inland Continuous Sprayer



The Robertson Patent Pump enables the manufacturer to make a better sprayer than it is possible for any other manufacturer to make without infringing on this patent. This pump conserves all the energy that is put into it and the sprayer thus gives a continuous and powerful spray with an easy motion of the plunger. It reduces the liquid to a fine, mist-like vapor and throws it with great force, so that it is driven into the smallest cracks and crevices.

These sprayers have a universal Nozzle that sprays up and down and to either side, in addition to the direct spray nozzle.

Price, tin, \$1.00; brass, \$2.00. Weight 2 lbs. Add postage.

Inland Special Sprayer



Inland Special Sprayer is a Single Tube Tin Sprayer. The pump cylinder measures $14\frac{1}{4}$ inches in length by $1\frac{3}{4}$ inches in diameter.

Sprayer is fitted with a $\frac{1}{4}$ -inch steel plunger rod; special type plunger. The special arrangement of the spraying tube is such that it thoroughly breaks up or atomizes all oils and solutions into a fine mist-like spray which penetrates all cracks and crevices. Weight, 2 lbs. Price, 50c. Add postage.

Baby Midget Sprayer



A small size single tube Tin Sprayer for household use. Strong and substantial and possessing every feature of the larger types.

TANK: Tin, 3 inches in diameter, $2\frac{3}{4}$ inches long; $\frac{3}{4}$ -inch can screw for filling; $\frac{1}{4}$ -inch plunger rod. Black handle and plug. **Pump tube,** $1\frac{1}{4}$ inches in diameter, 10 inches long. Length over all, $15\frac{1}{2}$ inches. Capacity, about $\frac{1}{2}$ -pint. Price, 50c. Weight 1 lb. Add postage.

Insect Powder Blower

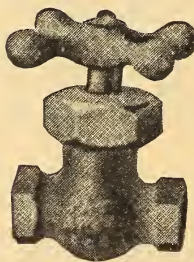
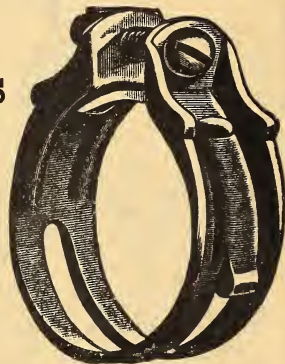
Price, 25c and 35c; postpaid, 30c and 40c.

PUMP ATTACHMENTS

Clamps

Two of these clamps can be used on our long shank couplings and mender.

Price, postpaid, each 10c; 3 for 25c; dozen, postpaid, 90c.



BALL CUT-OFF—The perfect $\frac{1}{4}$ -inch rod cut-off. Far better than a globe valve for it opens full with less than one turn of the handle. Better than any lever cut-off because it will not leak, since the ball revolves instead of wearing. Fits any spray rod. Price, \$1.25; postpaid, \$1.30.



HOSE CONNECTION—To connect $\frac{1}{2}$ -inch hose to spray rod. Price, each, 35c; postpaid, 40c.



HOSE COUPLING—With hexagon nuts and double length shank, so will not put or blow out. To connect $\frac{1}{2}$ -inch hose.

Price, per pair, 85c; postpaid, 90c.

Female half only, 50c; postpaid, 55c.

Male half only, 50c; postpaid, 55c.

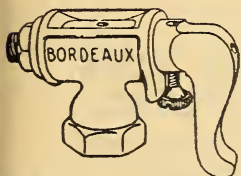
Hose Reducers



HOSE REDUCERS—These are for connecting a male hose coupling on end of spray hose to the spray rod. The two-piece connection has a swivel joint and is easily attached. When the one-piece connection is used the entire rod must be turned in screwing on.

Price, one-piece reducer, 35c; postpaid, 40c.

NOZZLES



BORDEAUX—This nozzle is a new pattern which eliminates the common objections to this type. The handle is built close down to the body and is shaped so as to avoid catching in the branches. The corners of the slot are cut away, leaving plain straight faces which form a clean-cut spray without ragged edges. Price, \$1.40; postpaid, \$1.45.

CLIPPER (Patented)—Throws a most perfect, flat fan-shaped spray. The spraying lips are so shaped that all parts of the spray travel the same distance from the lip, thus meeting the same resistance and so carry just as far after leaving the nozzle. It throws either a fan-shaped spray, a long-distance spray or a solid stream; can be shut off altogether. Especially adapted for whitewashing and painting. Price, \$1.50; postpaid, \$1.55.



MAJESTIC ANGLE—Throws a very large, beautiful, penetrating spray. Fitted with removable eddy chamber. The nozzles can be easily taken apart and cleaned. Wearing parts are cheaply and quickly replaced. Extra metal disc furnished with each nozzle. Price, \$1.00; postpaid, \$1.05.

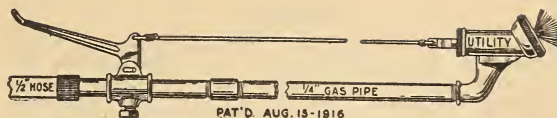


Illustration shows Angle Adjustable Nozzle in the extended form on spray rod.

Valves of nozzles are brass with unusually large waterways and strainer to prevent clogging when spraying whitewash or other heavy mixtures.

With our patent feature the shut-off is always at discharge end regardless of what length of pole is used. This eliminates use of stop-cock. Nozzle seats are brass, not rubber.

Price, each, \$2.00; postpaid, \$2.05.

VERMOREL—This nozzle throws a beautiful, misty, circular spray. All trouble caused by clogging in the bend is avoided by having the stem detachable. This also shows the nozzle to be turned at any angle desired. Price, \$1.25; postpaid, \$1.30.



$\frac{1}{4}$ NOZZLE ELL—It is very important to spray down into the blossom. This piece has just the right angle and screws onto the end of any spray rod. Then attach the nozzle.

Price, 30c; postpaid, 35c.



$\frac{1}{4}$ NOZZLE Y—The Brass Y shown here will screw onto any spray rod, and all kinds of spray nozzles screw into the other two ends. This is intended for use when two nozzles on one rod are desired. Price, 50c; postpaid, 55c.



ANGLE NOZZLE Y— $\frac{1}{4}$ -inch. Price, 50c; postpaid, 55c.

PRESSURE GAUGE REGISTERS—200 lb., price, \$3.25; postpaid, \$3.35. Registers, 300 lbs., price, \$3.75; postpaid, \$3.85.

Bamboo Extension



Threaded for nozzle and stopcock.

BAMBOO ROD—Aluminum Lined—6 feet, \$3.25; 8 feet, \$3.50; 10 feet, \$3.75; 12 feet, \$4.25.

BAMBOO ROD—Iron Lined—6 feet, \$2.25; 8 feet, \$2.50; 10 feet, \$2.75; 12 feet, \$3.00.

IRON RODS ONLY—5 feet, \$1.00; 8 feet, \$1.25; 10 feet, \$1.50; 12 feet, \$1.75.

Hose

The high pressure and corrosive and oily materials used in spraying are very destructive to ordinary spray hose, and have caused many persons to believe that hose for this purpose cannot be relied upon to last out a season's hard usage. Our Spray Hose is constructed and treated on purpose for this use, and as it saves annoyance and lasts longer, it is much more economical. Furnished in 12½, 25 and 50 foot lengths. 5-ply 25c per foot. For power sprayers. 30c per foot. Price subject to change.

This is of extra fine quality. ½-inch size.

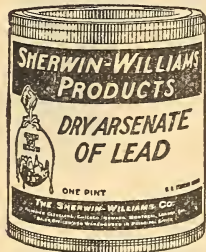
Fittings, \$1.00 extra. Fittings consist of one hose connection, one female coupling and four hose clamps.

Hose Washers, ½-Inch rubber, doz., 10c.

SPRAY MATERIALS AND INSECTICIDES

It is important that the orchardist should become familiar with the name and character of the different diseases and pests. If the disease is not known apply to your inspector for information. Specimens of diseased fruit or leaves or other portions of trees or plants may be forwarded to your state experiment station without cost, where a careful microscopical examination will be made and the disease identified.

Arsenate of Lead



Owing to unsettled conditions the quotations made on spray materials are not guaranteed. Write for price, stating size and quantity wanted.

Powdered

Dry Powder Arsenate of Lead mixes quickly and easily; and is very adhesive. Dry Powder Arsenate is a light, fluffy powder that cannot freeze, dry out, cake or lose its strength.

Dry Powder Arsenate of Lead may be mixed with water and applied as a liquid spray or it may be used as a dust spray. If applied as a liquid spray it is usually used 1 pound to 1½ pounds to 50 gallons of water. For potato beetles and other insects that are hard to kill use two to three pounds to 50 gallons of water. ½ lb., 20c; lb., 35c; 4 lb. pkgs., \$1.00; 12 4 lb. pkgs., \$11.00; 25 4 lb. pkgs., \$20.00.

Write for prices, stating size and quantity wanted. Not mailable.

BORDEAUX MIXTURE

Dry Bordeaux is a dry powder and is packed in sift-proof impervious packages. There is no danger of freezing nor of drying out in the package. Keep tightly closed and away from moisture as much as possible.

It stays in suspension well, adheres to the foliage and can be used in combination with Paris Green, Arsenate of Lead or other insecticides with an extraordinary degree of safety. 1 lb., 35c; 5 lbs., \$1.50; 25 lbs., \$5.00; 50 lbs., \$8.75 100 lbs., \$15.00; 200 lbs., \$28.00.

Ask for prices, stating size and quantity wanted. Not mailable.

SPRA-MULSION

SPRA-MULSION is a high quality insecticide and scalecide.

For spraying dormant trees for Brown Apricot Scale, San Jose Scale, Aphis Eggs, Red Spider Eggs, Moss, etc., use from 12 to 16 gallons of SPRA-MULSION to make 200 gallons of dilute spray. Where the trees are badly covered with moss, it is advisable to add about 8 pounds of Caustic Soda to each 200 gallons of water. The Caustic Soda should be dissolved in the water first and the SPRA-MULSION added.

For Pear Thrips on Pear and Cherry Trees and Aphis on Apple and Cherry Trees, etc., before blooming use from 6 to 8 gallons of SPRA-MULSION and 1 pint of Black Leaf "40" to make 200 gallons of dilute spray. For spraying after the trees bloom, use 4 or 5 gallons of SPRA-MULSION and 1 pint of Black Leaf "40" to make 200 gallons of dilute spray. Dilute the Black Leaf "40" in the spray tank first; then add the SPRA-MULSION and do not agitate or stir after the materials have once been thoroughly mixed and are uniform.

Gallons, \$1.00; 5 gallons, \$4.50; barrels, \$23.00. Prices subject to change.



DRY LIME SULFUR

Containing Other Compounds

Directions: From ten to twelve pounds of Dry Lime Sulfur dissolved in fifty gallons of water should be used as dormant spray against scale, insects, etc. From two to three pounds to fifty gallons of water in combination with the usual proportion of Dry Arsenate of Lead should be used for summer spraying on all seed fruits, such as apples, pears, quinces, etc. From one to one and one-half pounds to fifty gallons of water in combination with the usual strength of Arsenate of Lead should be used for summer spraying of peaches, plums and all stone fruits.

Price, lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.00; 25 lbs., \$3.75; 50 lbs., \$6.50; 100 lbs., \$11.00; 200 lbs., \$20.00. Not mailable. Prices subject to change.

Bluestone

Used successfully in winter sprays. Lb., 25c, postpaid. If wanted in 100-lb. or barrel lots, market price.

SPRAYOMETER

The only practical way of testing the strength of lime and sulphur solution is by means of a Hydrometer. The Hydrometers made for this purpose are known as "Sprayometers."

SPRAYOMETER SET, consisting of one LISUL Sprayometer, one 12-inch plain Glass Cylinder in wooden container, with full instructions. Per set, \$2.50; postpaid, \$2.60. Sprayometer only, \$2.00; postpaid, \$2.10.

We exercise the greatest care in packing all glassware, but do not insure its safe delivery. Forwarded only at purchaser's risk.

BLACK LEAF "40"

A Concentrated Solution of Nicotine-Solution (Poison)



For the convenient information of those desiring to use "Black Leaf 40" the following suggestions are made

Against sucking insects, such as Green and Woolly Aphis, Pear Psylla, Grape Leaf Hopper, Pear Thrips, etc., 1 part "Black Leaf 40" to about 900 to 1,000 parts water.

Against more resistant plant lice, such as Black Aphis and Rosy Apple Aphis, 1 part "Black Leaf 40" to about 500 to 700 parts water.

The addition of one or two pounds of any good soap, or of Whale Oil soap, to each 50 gallons of water is often very advantageous. When using dissolve the soap in the water before adding "Black Leaf 40."

Price, 1 oz. bottle, 35c; 1/2 lb. tin, \$1.25; 2 lb. tin, \$3.50; 10 lb. tin, \$13.50. Not mailable.



Directions.

BARLEY—Put one pint in 40 gallons of water. dip barley in loose gunny sacks; soak for two hours; spread out and dry after draining.

OATS—Use one pint in 10 pints of water and with a spray pump direct a spray into each shovelful of grain as it is being shoveled over on a clean floor or canvas. This quantity, 11 pints, will treat 55 bushels at the rate of 1 pint to 5 bushels. Grain may be immediately sacked.

POTATOES—Use one pint to 15 gallons of water. Heat solution 118 degrees to 122 degrees Fahr. in tank with heater. Dip uncut potatoes for two minutes either in sacks or crates,

then cover with canvas for an hour. This will effectually treat black leg, black scurf, common scab and dry rots. For larger lots use larger tank heated with steam from boiler. Small lots can be treated in a wash-boiler on the stove.

WHEAT—Mix one pint in 40 gallons of water. Use two tubs or containers, one above the other. Half fill the upper tub with the solution and pour your seed grain loose into the tub. Stir it thoroughly so that all smut balls, trash, immature kernels, weed seeds, etc., may rise to the top and be skimmed off. Draw off the solution into lower tub, dump the grain on a canvas and cover with sacks if grain is to be sown in few hours. Wheat may be sown immediately while wet. If impossible to sow while damp spread out and dry.

Price: Pints, 60c; quarts, \$1.00; gallons, \$3.25. All sizes packed in glass and shipped at owner's risk. Not mailable.



For destroying slugs, cabbage and turnip flea, currant worms, etc. Lb. pkg., 30c; 5 lb. pkg., \$1.15. Add postage.

Hammond's Grape Dust



To prevent mildew on roses, grapes and gooseberries. Lb. pkg., 35c; 5 lb. pkg., \$1.25. Add postage.



Poor Paris Green is dear at any price. Effective against all chewing insects. Price, 1/4s, 25c; 1/2s, 40c; 1s, 75c; 2 lbs., \$1.25; 5 lbs., \$3.00. Not mailable. Prices subject to change.

Quassia Chips

Used with Whale Oil Soap for lice on cabbage, cauliflower, etc., and on fruit trees. Lb., 15c; add postage. At purchaser's expense: 25 lbs., \$3.00; 50 lbs., \$5.50; 100 lbs., \$10.00.

Sulphur

Powdered, lb., 10c, add postage; 100 lbs., market price.

Sulpho - Tobacco plant and Animal-Soap is a wonderful agent for the destruction of all bugs and insects. One or two applications will rid plants of the pests.

Destroys cabbage, potato and squash bugs, currant worms, lice, greenfly, mealy bug, red spider, etc. Is also valuable as a wash for dogs and other animals.

8 oz. cake makes 4 gallons prepared solution. Price, 30c; postpaid, 35c. Lb. cake, 50c; postpaid, 55c.



Tobacco Dust

For green and black aphids, fleas, beetles. Lb., 15c; 10 lbs., \$1.25; 25 lbs., \$2.75; 50 lbs., \$5.00; 100 lbs., \$9.00; add postage.

Woodlark Squirrel Poison



Requires no mixing preparation—always ready for use. When you buy demand the best. Get the "Woodlark" brand. Lb., 50c; 10 lbs., \$4.50. Not mailable.

CARBOLA

The Disinfecting White Paint

Turns the whitewashing job into pleasant rainy-day work that can be done easily and quickly at a saving of time, labor and money.

Easy to Mix and Apply

Carbola comes in powder form, packed in different sized packages. To mix it, just put the Carbola in a pail and stir in water, a little at a time, until the mixture is about as thick as ordinary oil paint. It is then ready to use—It has no disagreeable odor and does not flake or scale off. One gallon covers approximately 200 square feet of surface.

A mixture of one pound of Carbola and a gallon of water is recommended for surfaces that

have already been painted or whitewashed. For the first coat on a new or unpainted surface the use of two or three pounds of Carbola to a gallon of water is recommended. When first applied Carbola looks watery, but it dries out quickly with a smooth, white finish. For use out of doors, add a pound of glue dissolved in hot water for every ten pounds of Carbola. Price, 10 lbs., \$1.75; 50 lbs., \$7.25. Add postage.



GAS BALL RODENT KILLER—Pours forth a deadly poisonous gas that carries death to any living thing in the burrow. Although it means absolute destruction to the rodents, it is perfectly safe for the farmer to handle and cattle can not be injured or endangered by its use.

Directions

Keep the balls dry. If stored in a damp place or exposed to the damp air they are liable to absorb the moisture. If they should become damp, dry them out well in a warm open oven for an hour or so before using.

Light the sharp edges of two Rodent Killer Gas Balls with a torch or match, and after the balls are ignited and burning freely, roll them as far as possible into the burrow. Cover the hole with sod and seal tightly so that none of the gas fumes can escape. Throw no fine dirt on the burning balls.

The limit of air poisoned by one treatment as mentioned is eight cubic feet.

Price, doz., 30c; 50, \$1.15; carton of 125, \$2.50. 500, \$8.50; 1,000, \$16.00. Carton weighs 10 lbs. Add postage.

CLOVER LEAF

FRUIT LADDER

A very popular Ladder. Leg easily slipped between the limbs of the tree.

Weight about 2½ lbs. to the foot.

Following sizes kept in stock for prompt shipment:

6-ft., bot. spread, 30 ins.
8-ft., bot. spread, 35 ins.
10-ft., bot. spread, 40 ins.
12-ft., bot. spread, 42 ins.

Price, 65c per foot.



INLAND FRUIT LADDER—Wide bottom, spread, thus assuring greater safety. Well built, solid and strong. Weight about 3 lbs. to foot. 6, 8, 10 and 12 feet.

Price, 55c per foot.



CLOVER LEAF FRUIT PICKING BAG

Two things are desired in picking fruit: First, safety of the fruit; second, speed in picking. The Clover Leaf Picking Bag combines both.

Constructed of heavy canvas with a spring steel frame at top. The lower end of the bag folds squarely back to the steel frame at the top. The lower portion of the sack being held securely by means of an ingenious fastener attached to the steel frame.

When one wishes to empty the filled sack, it is but the work of a moment to release the cords from the fasteners and the fruit may then be gently deposited in the boxes, through the now open lower end of the sack. Two broad shoulder straps insures comfort to the picker even when the sack is full. Both of the pickers' hands are free for his work.

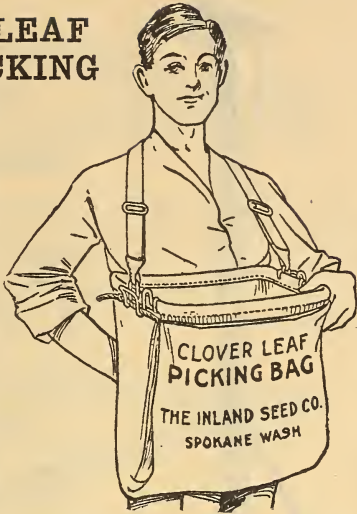
Price, \$1.75. Weight, 3 lbs. Add postage.

Price subject to change.

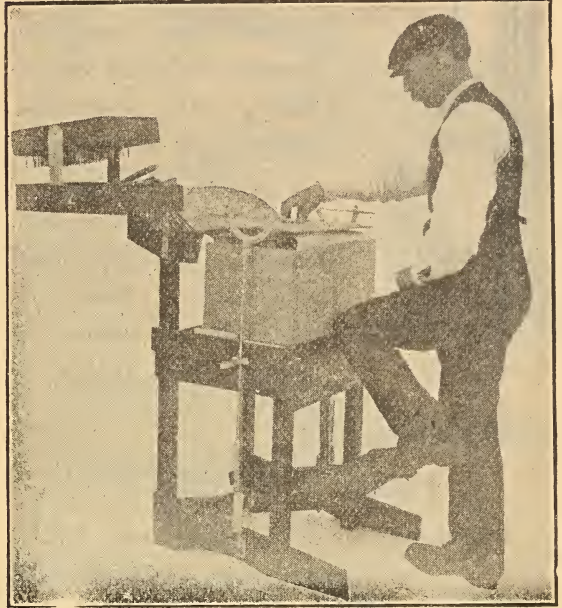
INLAND FRUIT PICKING BAGS The load is carried from the shoulders by heavy halter web that will not curl, and in this position gives ease and comfort to the picker. A strap around the waist keeps it in position. The mouth of the bag is always open, being constructed with a novel shaped metal frame so that the hands of the pickers can go with the fruit to the bottom of the bag. Bottom of the bag is opened instantly by the snap and fruit is emptied without bruise or injury.

When snapped at top loop the bag will hold $\frac{1}{2}$ -bushel; when snapped at bottom loop, as shown in cut, the bag

will hold about a bushel.



Body of bag is made of 10-ounce canvas double stitched with waxed harness thread and reinforced with leather riveted at wearing parts. Price, \$1.50. Weight, 3 lbs. Add postage.



All fruit growers sooner or later feel the need of a good, durable and handy **LID PRESS**.

SAVING TIME is just as essential in the packing house as it is in the shop or factory. A number of special features of the Edgemont Lid Press are time savers, which are quickly appreciated by the user. The stripper nail box delivering the nails all pointed down; the placing of the lids in position endwise by the clamping yoke; the little spring attachment holding the cleat in place, all tend to make nailing an easy, quick and simple operation. Price, \$28.00.

Price subject to change.

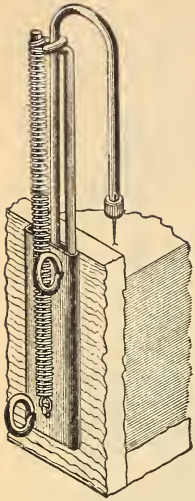
Nail Strippers



Self feeding. No time lost in keeping full. Adjustable. Handles all size nails from 2 d. to 10 d.

Smith's (cut). Price, \$10.50. Weight, 8 lbs. Add postage.

Edgemont. Price \$6.00. Weight 6 lbs. Add postage. See cut of this nail stripper shown on lid press.



Paper Holder

A model of simplicity, handiness and usefulness. Saves paper and increases the speed of the user. An all-purpose holder and a necessity for every fruit packer. Holds from one to 1600 wraps. Neat, rust-proof and lasting. Folds up and can be carried in pocket. Price \$1.00.

Points in Pruning

1. Proper pruning gives more and better fruit.
2. It costs less to spray and pick a well pruned tree.
3. All varieties are not pruned alike.
4. Heavy pruning tends to increase wood growth, and may be used to rejuvenate a run down tree.
5. Light pruning tends to increase fruit production.
6. The growing habit of trees varies with age.
7. Watersprouts are usually the result of heavy pruning. Those sprouts near the base of the scaffold limbs may be tipped back and caused to produce fruit.
8. A limb grows more from the tip buds than from the aerial buds.
9. Fruit may be thinned by pruning.
10. Pruning wounds need not be painted in Colorado.
11. Keep the top of the tree somewhat open. Light helps to make extra fancy fruit.
12. If the buds on your peach trees have been killed and the fruiting wood is in the upper third of the top "dehorn" your trees back heavily to limbs one inch in diameter.
13. Learn the principles of pruning, the details will vary with the tree.
14. Common sense and good judgment will help a great deal.—Professor Longyear, Colorado Agricultural College.

PRUNERS

WATERS' IMPROVED—Indispensable in pruning tall trees. Cannot go by mail. Purchaser will have to pay freight or express charges. Price, 6 ft., \$1.75; 8 ft., \$1.90. Extra blades, 25c each.



Bastian Pruner

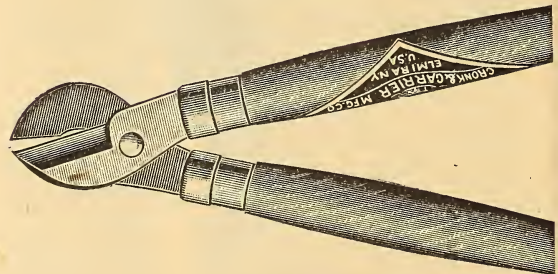
The powerful lever of the Bastian Pruner enables one to do the same work in half the time and with half the labor that would be required with old-style Pruner.

Blades are of finished Damascus steel, very strong, and hold their cutting edge. Simple in construction, light, strong and durable.

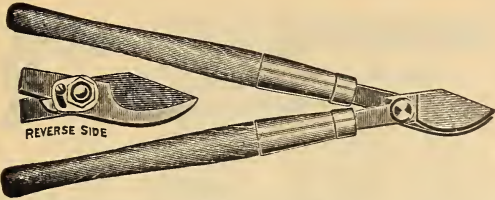
Price, 6 feet, \$1.75; 8 ft., \$1.90; 10 feet, \$2.10; 12 feet, \$2.25. Handle Slides, 30c each. Extra blades, 30c each. Blade Screws 10c each.

SECTIONAL PRUNER—This is made of the same high grade material, and by the same skilled workmen as the regular Bastian Pruner, but is made adjustable so that it can be converted easily into a 6, 9, or 12 foot pruner. Price, \$3.25.

Cronk's Wood Handle Pruning Shears



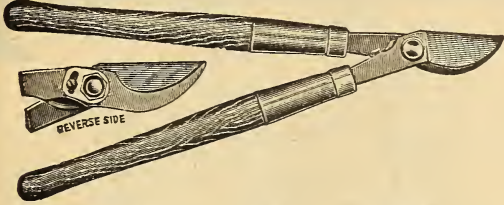
Steel ferrule. Notched hook (patented), prevents slipping, gives greater leverage, and makes cutting easier. No. 9½, 26 inches. Weight, 3 lbs. Price, \$1.75; add postage.



FRESNO PATTERN—Forged from high grade tool steel, finely tempered. Solid wrought steel ferrule. Has lock nut and can not work loose and ruin the shears. Riveted handle. Strictly high grade and has no equal.

No. 126—26 inches, weight 3 lbs. Price, \$2.50.

No. 130—30 inches, weight 4 lbs. Price, \$2.75. Add postage.



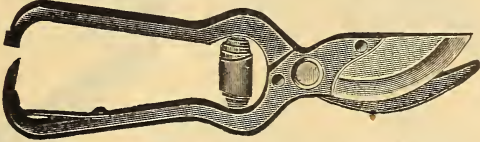
CRONK'S EXTRA HEAVY—Forged from high grade tool steel and finely tempered, wrought steel ferrule polished. Has the Cronk patent locknut and can not work loose and ruin the shears. Riveted handle.

No. 226—26 inches, weight 3 lbs. Price, \$2.75.

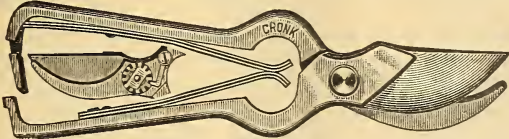
No. 230—30 inches, weight 4 lbs. Price, \$3.00.

Pruner handles with ferrule, 20-inch, 50c; 24-inch, 55c; 30-inch, 60c each; weight 3 lbs. Add postage.

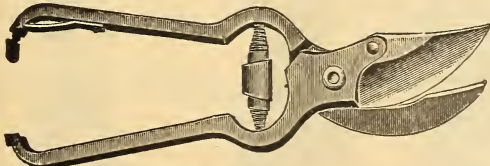
HAND PRUNES



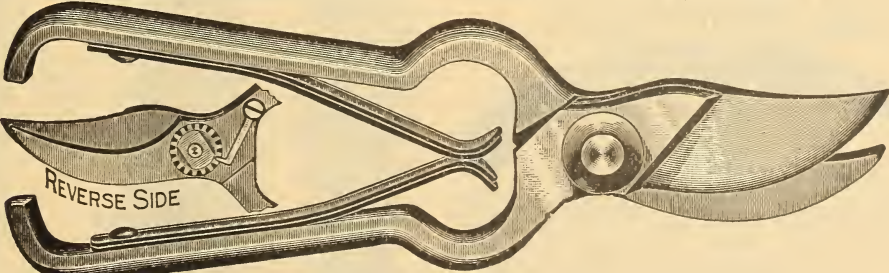
17—Length, 9 inches. Detachable polished tempered steel blade. Price, \$1.25; postpaid, \$1.30.



600—Forged from best cutlery steel, full polished, 8½ inches. Price, \$2.50; postpaid, \$2.55.

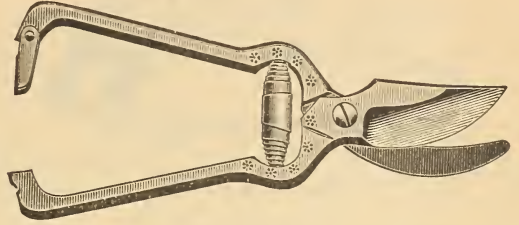


27—Length, 9 inches. Detachable blade of cut-



No. 700—Ratchet nut. Brass spring. Extraquality steel Length, 8½ inches. Price, \$2.75; postpaid, \$2.85.

lery steel. Notched hook, forged from tool steel, full polished and tempered. Price, \$2.25; postpaid, \$2.30.

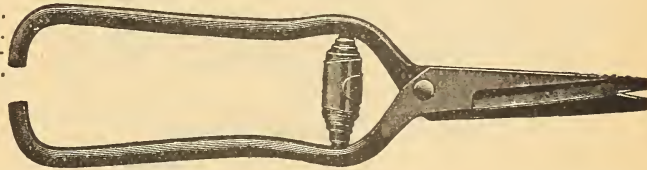


250—Forged from best cutlery steel. Nickel plated, 7 inches. Price, \$2.25; postpaid, \$2.30. Known as Rose or Ladies' Pruners.

Grape or Thinning Shears



101—Length, 6½ inches. Made extra heavy. Price, 70c; postpaid, 75c.

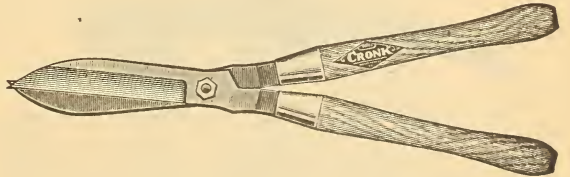


203—Same as 101, but longer and has volute spring. Price, 80c; postpaid, 85c.

Springs

Volute springs for hand prunes. Each, 15c. Volute springs for No. 203, each 15c. Springs for No. 101, each, 15c.

Shears



HEDGE—Polished tool steel blades; polished hardwood handles; cut 8 inches. Notched in order to cut larger branches.

Price, \$2.50; postpaid, \$2.60.

Saws

No. 10. Tapered Pruner



The frame is made of extra high quality spring steel, $\frac{5}{8}$ of an inch wide and $\frac{1}{4}$ -in. thick. The blade is extra high-quality Pruning Saw steel, 16 inches long. The handle is ATKINS new easy grip pattern and is in popular favor wherever used. It is made of beechwood thoroughly seasoned, highly finished and polished on the edges, fastened to the frame by two brass screws. The blade is adjustable so that the Saw will cut at any angle. Price, \$2.75; postpaid, \$2.85. Extra blades, 40c; postpaid, 50c.

No. 1. Atkins Table and Pruning Saw



This is one of the older patterns and is still in popular favor in many sections of the country. The blade tapers from $2\frac{5}{8}$ inches to 1 inch, and is made of genuine Silver Steel. The finest steel that has even been used in saw blades. The handle is of hardwood, finely finished, polished edge. Blade is 18 inches long. Price, \$2.00; postpaid, \$2.10.

No. 3. Duplex Pruner



The blade is made of the finest quality Silver Steel and will receive a remarkably sharp cutting edge and retain it for the longest possible time. The handle is made of thoroughly seasoned applewood, highly polished and finished. Length, 18 inches. Price, \$2.25; postpaid, \$2.35.

No. 18 Folding



This is similar to the No. 13, except it is supplied with a folding handle, enabling the user to turn the tooth edge down for the purpose of putting in pocket. Made of silver steel, highly polished. Peg teeth pitched back so as to be right angle at cutting edge. Plain sanded beech handle. Nickel screw. Price, \$1.75; postpaid, \$1.85.

No. 13. California Pruner



This saw is used almost exclusively for pruning grape vines. The blade is of the finest quality Silver Steel which is superior to any other saw steel. The curved blade makes cutting easy. The handle is of highly finished applewood. Blade is 14 inches long. Price, \$1.50; postpaid, \$1.60.



Nest No. 1

We recommend this set for general purposes. It consists of a keyhole, compass and pruning saw blade and handle as illustrated. Price, \$2.50; postpaid, \$2.60.



No. 4—The blade is heavy guage and is of high-grade special steel tempered tough and hard, but not brittle. The handle is of thoroughly seasoned hardwood, handsomely carved, varnished and polished; fastened to the blade by three brass screws and a medallion blade 14 inches in length. Price, \$1.00; postpaid, \$1.10.

Atkins Perfection Grass Hook



The blade is of Silver Steel and will hold its edge much longer than the material usually placed in similar tools. It is extremely light and does not tire the wrist. Fitted with a hardwood, easy grip handle, securely fastened to a malleable casting by strong rivets. The curve of the blade is such that the entire cutting edge is constantly in use. Corners and out-of-the-way spots may be easily reached.

The handle being offset, saves the knuckles from becoming bruised. Price, 75c; postpaid, 85c.

GRASS SHEARS—For trimming round, flower beds etc. Each, 60c and 75c; postpaid, 75c and 85c.

Planet Jr. No. 2 Lawn Edger

Neat, good looking lawns require that the edges be trimmed frequently. The No. 2 Planet Jr. Lawn Edger does this work satisfactorily and quickly. Should be a constant companion to your lawn mower and, after using it once, you will wonder how you ever did without it. Price, \$2.00. Weight, 4 lbs. Add postage.

Knives

Budding Spear, No. 2 $\frac{1}{2}$ Z. Out.

Budding, No. 2 $\frac{1}{2}$ J—50c; postpaid, 55c.

Grafting, No. 2 $\frac{1}{2}$ V—50c; postpaid, 55c.

PX3H—50c; postpaid, 55c.

PX761—50c; postpaid, 55c.

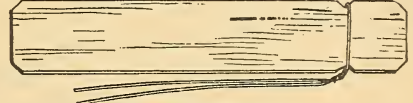
PX2HS—50c; postpaid, 55c.

All of the blades are made from a very high grade English crucible tool steel; they are given the proper temper for the particular work required; they all are ground sharp and hand honed, leaving them ready for use. The handles are oval rubberoid of a shape to fit the hand. The ferrules are of heavy construction, oval, nickel plated, and the blades are pinned in handles, preventing any possibility of their coming out or becoming loose.

Labels



	Size	100	500	1000	Weight Per 1000
Pot, Plain	4x5½	\$0.30	\$1.00	\$1.75	5 lbs.
Pot, Plain	5x5½	.35	1.50	2.50	6 lbs.
Pot, Plain	6x5½	.40	1.60	2.75	7 lbs.
Pot, Painted	4x5½	.35	1.50	2.50	5 lbs.
Pot, Painted	5x5½	.40	1.60	2.75	6 lbs.
Pot, Painted	6x5½	.45	1.75	3.00	7 lbs.



Tree, plain, cop-					
per wired	3½x5½	.40	1.60	2.75	6 lbs.
Tree, painted, cop-					
per wired	3½x5½	.45	1.75	3.00	6 lbs.

Add Postage

Beeswax

Put up in pound cakes.

Price, 60c; postpaid, 70c.

Grafting Wax

One-fourth lb., 20c, postpaid, 25c; ½ lb., 30c, postpaid, 35c; 1 lb., 50c; postpaid, 60c.

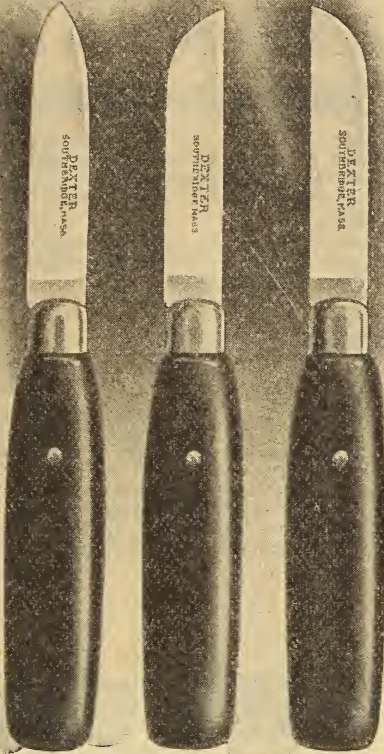


For use on trees, shrubbery, etc., to stop bleeding of sap after pruning, and prevent worm-boring. Used extensively by large nurseries and fruit growers.

Directions: Best results are obtained by applying Pruning Compound at the time pruning is done. Quarts, 75c; gallon, \$2.50. Not mailable.

Raffia

Natural color, for nursery work. Price, ¼ lb., 15c; ½ lb., 25c; 1 lb., 40c; postage extra.



2½Z

2½J

2½V



PX3H

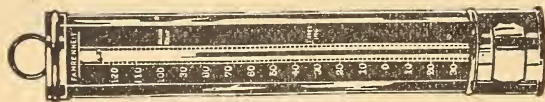
PX761

PX2HS

Greenhouse Thermometers



5400S



5420S

No. 5400S—Best grade, 10 inches, black

japanned, heavy tin case. Spirit. \$2.00, post-paid, \$2.10.

No. 5420S—Selected grade, 10 inches, black japanned tin case. Spirit. \$1.50; postpaid, \$1.60.

Soil (Hot Bed) Thermometers



No. 5981—It has a strong, pointed, metal end-piece; the glass tube and V-shape metal scales are sunk in the wood back; length, including shaped handle, is 15 inches. Price, \$2.25; post-paid, \$2.35.

We use the utmost care in packing all glass-ware, and will not be responsible for its arrival in good condition.

Poultry Department

Causes For Infertile Eggs and Death.

Breeders that are too fat.

Lack of exercise.

Breeding stock of low vitality.

Extremely old or decrepit breeding stock.

Breeders that are too young.

Excess of females to one male.

Lack of proper feed.

Unsanitary quarters.

The death of chicks in the shell may be caused by:

Keeping eggs at too high a temperature before incubation.

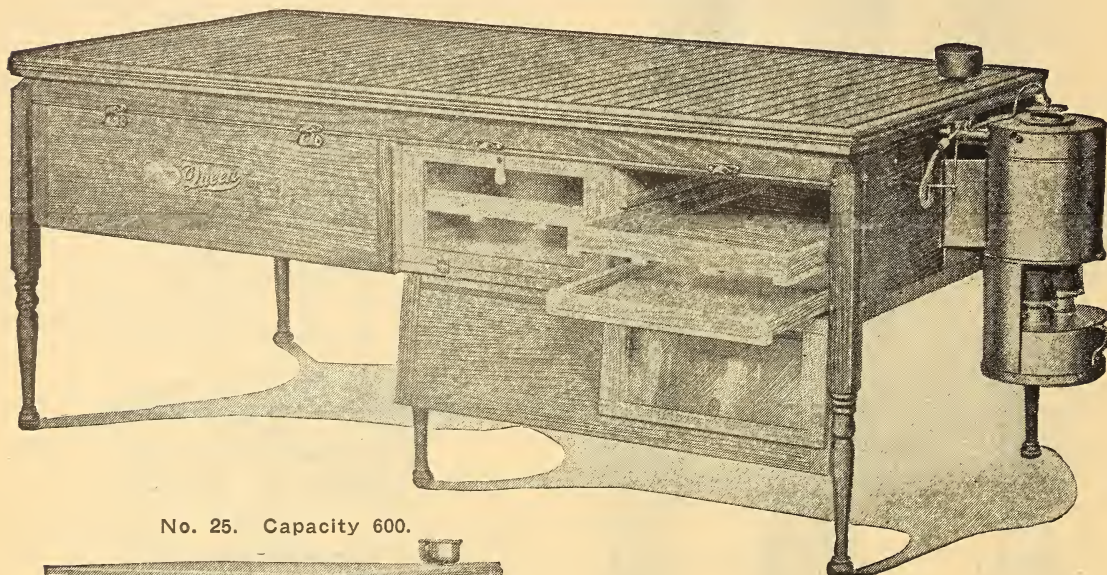
Great variations in temperature.

Low vitality in the breeding stock.

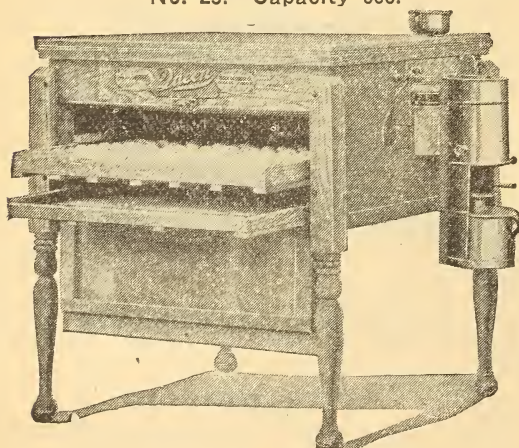
Keeping eggs too long before incubation.

Improper methods of incubation.

Queen Incubators



No. 25. Capacity 600.



NO. 2—CAPACITY 135

Queen Chicks Live and Grow

Queen Incubators are famous the country over for big hatches of strong, healthy chicks that live and grow. The Queen is accurately regulated, keeping the temperature just right for the hatching chick.

The Queen Hot Water System

Provides uniform heat over egg chamber that is most natural for the hatching eggs. This form of heat under ordinary conditions makes unnecessary the application of moisture.

Temperature

Insulation is what keeps the water in the Thermos bottle hot or cold, whichever it may be. It is packing that prevents the easy entrance or escape of heat.

The Queen is doubly insulated. First, double walls of California redwood is used, thus forming a dead air space. Second, corrugated straw-board is used between the wooden walls.

Boiler and Radiator

Of the Queen heating system is made of copper (not copperized tin), and is placed close to the inner top of the incubator. This form of placing allows the heat to reflect from the floor of the egg chamber and to more evenly affect the germ which always rises to the upper surface of the yolk.

Heat Regulation

This is a vital factor in incubation, for an incubator must have exactly the required amount at all stages of the hatching period. In other words, the source of heat must be self-regulated and sure.

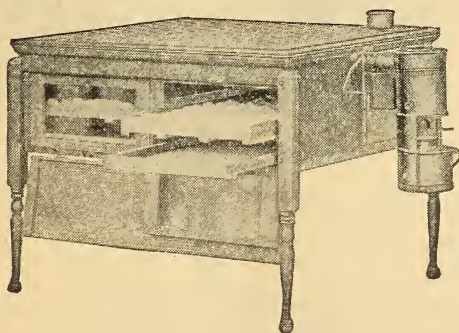
Why Redwood Is Used

California redwood is conceded by all to be the best wood for incubator construction, as it will not warp, split, nor absorb moisture or odors during use.

Sizes and prices:

- No. 1— 85-egg size, \$ 27.00.
- No. 2— 135-egg size, \$ 37.50.
- No. 3— 180-egg size, \$ 45.00.
- No. 4— 275-egg size, \$ 58.00.
- No. 5— 400-egg size, \$ 72.50.
- No. 25— 600-egg size, \$110.00.
- No. 45—1000-egg size, \$160.00.

Style K Incubator



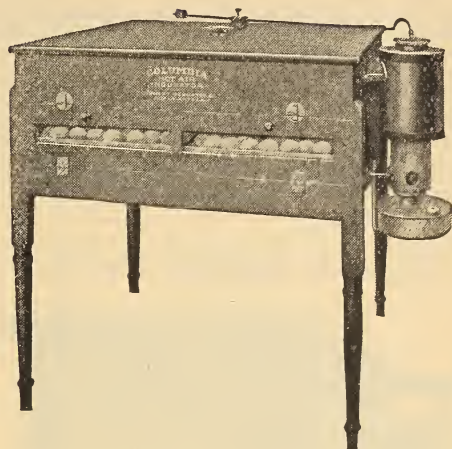
- No. 20— 70-egg size, \$16.50.
- No. 21—130-egg size, \$28.00.
- No. 22—220-egg size, \$37.00.

Style K is made by the Queen Incubator Co., but is not of the same high standard as the Queen line, in material nor workmanship, nor do they embody all the principles that have made the Queen line so successful and famous.

Style K Incubators are constructed of double-wall redwood. The top of the machine is relined with insulation. The heater and pipes are made of aluminoid. The machine is equipped with the same expansion cup and thermometer as the regular Queen.

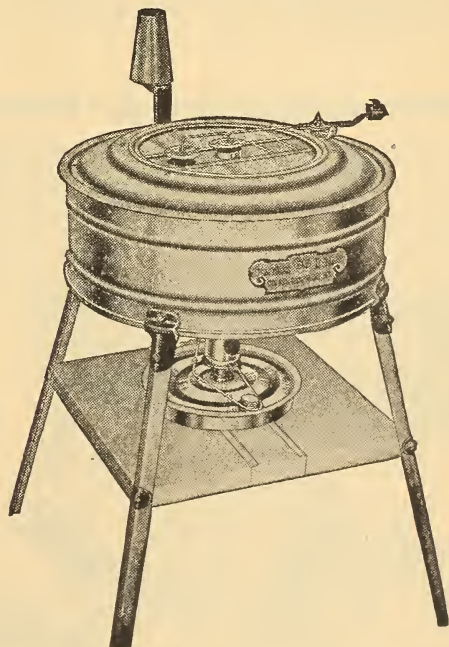
The regulator is the same as the Queen, except of lighter construction, and has a three-inch steel wafer.

Columbia Hot-Air Incubators



Are built to meet the wide-spread demand for large capacity lamp-heated machine that can be sold at surprisingly low prices and yet be guaranteed to do high-class work. Have wooden cases, attractively finished in dark green, with brass trimmings, and double walls. Seamless bottom lamp bowls, best quality brass burners, zinc and steel Standard Cyphers toggle-joint thermostat and same regulating equipment as used on higher priced machines. Fume proof, forced draft heater, asbestos covered and metal banded. Automatic in ventilation and embodies diffusive principles. Roomy chick nursery under egg trays. 140 eggs, \$25.00.

The Peerless Automatic Incubator Heat, Moisture, Ventilation, All Automatic



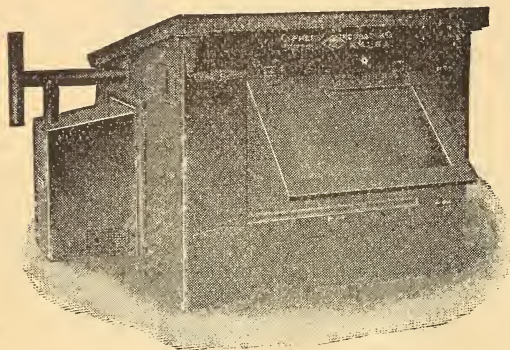
The heating system is a masterpiece of simplicity. The heated air is conveyed upwards through the egg chamber to the heat distributor. The heated air from the lamp never enters the egg chamber directly.

Moisture is supplied by an open water jacket which surrounds the heat flue.

The action of the regulator is governed by the expansion and contraction of a sensitive double wafer thermostat.

Made entirely of metal with the exception of the glass top, through which the entire interior of the machine can be inspected without opening it. The thermometer rests just above the eggs and is plainly visible. Capacity, 66 eggs; price, \$9.00. Will not go by mail.

Style A Outdoor Brooder



Dimensions: Floor space, 32x22. inches; height, 32 inches in front, 24 inches in rear. Capacity, 75 newly hatched chicks.

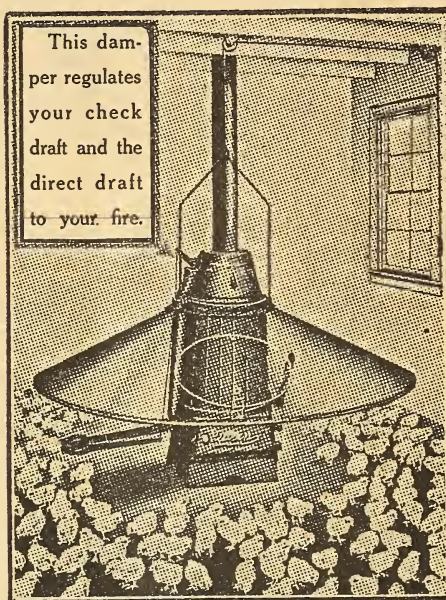
The double frame door of this brooder is of great convenience to the operator—the sill being on the level of the floor makes cleaning easy—while ample ventilation is secured, at the same time preventing rats, cats and other chick enemies from gaining access to the brooder. The outer door hooked up part way, allow ventilation and prevents rain beating in.

Price, \$10.00.

Common Sense Brooder Fixtures

Manner of Construction—First, put in a tight floor 9½ inches from the bottom of brooder. Then mark and saw out size of larger drum on this floor (using drum as pattern), 12 inches from center of side of brooder to center of drum. Secure drum in place, then nail one-inch cleats, two feet square under and around the drums, cutting out a two-inch hole from cleat and side of brooder to allow air circulation. Nail the lower drum up on these cleats. Bore sufficient holes through two sides of brooder, under this floor, to carry off fumes and furnish air for lamp. For the hover nail thin boards together, making it two feet square. Around this tack oilcloth wide enough to reach floor when hover rests on drum. Set the lamp under center of drum. Price, \$6.00.

BROODER STOVES



Queen Brooder Stove

A Brooder Stove is just what is needed to keep the house comfortable for the early chicks.

These brooder stoves are made of the highest quality iron castings that will wear and last indefinitely, and are self regulating.

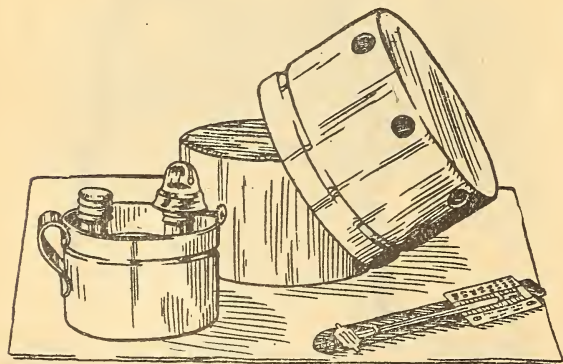
The hover is galvanized steel, and can be readily raised or lowered. They are efficient and satisfactory in every respect; need little attention and can be operated almost under any condition, and are very cheap when you consider the number of chicks they will care for.

- No. 1—500 chick size, \$22.50.
- No. 2—1000 chick size, \$28.50.

No pipes or elbows furnished with stoves. Order as many lengths of pipe as you need, also elbow if needed, and add to price of stove.

- 3-inch pipe, 25c.
- 4-inch pipe, 35c.
- 3-inch caps, 50c.
- 4-inch caps, 50c.
- 3-inch elbow, 40c.
- 4-inch elbow, 50c.
- 3-inch roof plate, 60c.
- 4-inch roof plate, 60c.

The three-inch pipe is most generally used, but some prefer the four-inch on account of its greater draft and the less liability of its becoming soot clogged.



Top Removed, Showing Location of Hover and Heat Retainer

Sol-Hot Colony Brooder

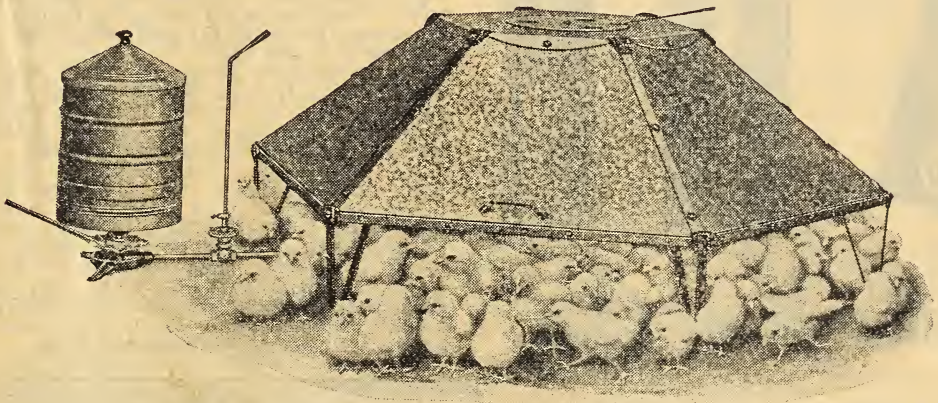
The new Improved Sol-Hot embodies the fundamental principles that are absolutely necessary in a heater for the successful hatching and rearing of chicks. It is the one heater on the market that is absolutely automatic. Once the burner is lighted it cannot go out as long as there is oil in the oil supply tank. The danger from fire caused by burners going out and oil continuing to flow through the burner and dropping down on the floor is entirely eliminated because the oil stops the minute the flame is extinguished.

You regulate the size of flame by raising or lowering the oil container; turning the oil con-

tainer to the left raises the reservoir and increases the flame—turning to the right decreases size of flame. The lever just below the oil container locks container, holding it in the desired position. In this new model the glass oil container has been replaced by a metal oil container with a capacity of 2 gallons, thus reducing labor to a minimum. Fire underwriters have never indorsed the glass oil containers on account of liability in breaking and the consequent fire risk. The flat top on this new model insures a free and better circulation of air and a more even temperature.

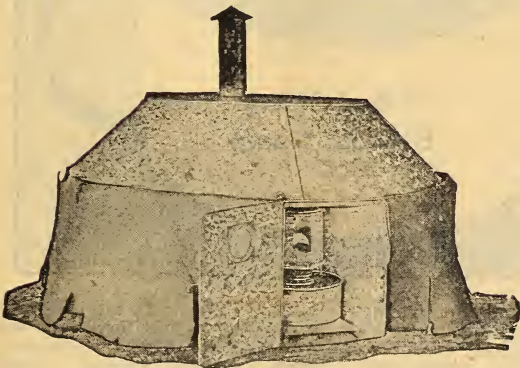
42-inch canopy, 500 chick, \$20.00.

52-inch canopy, 1000 chick, \$22.50.



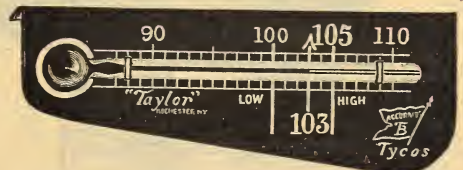
Sol-Hot Colony Brooder

Perfection Hover



This is all that its name implies, and is of the same high standard as the Queen Incubator, and is the nearest to perfection of any hover that has yet been devised or put upon the market. Capacity, 150 chicks. Price, \$12.50.

Thermometers



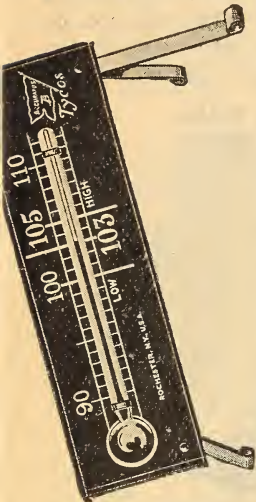
5774

The best incubators and brooders manufactured are worthless unless the thermometers therein are correct. The thermometers here listed are guaranteed by the manufacturers to be thoroughly and expertly tested before they are offered to the public. Incubator Thermometers, \$1.00; postpaid, \$1.10.

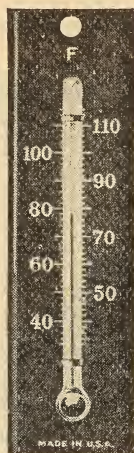
"Tycos" Re-Tested Incubator Thermometer

No. 5782—With scale etched on the glass tube, so that should the tube from any cause work loose on the mounting, the efficiency of the thermometer would not in any manner be diminished. Made in mercury tube only.

Each, \$1.25; postpaid, \$1.35.



5770
Incubator
Thermometer
Price \$1.00
Postpaid, \$1.10



5794
Unmounted
Brooder
Thermometer
Price, 90c
Postpaid, \$1.00



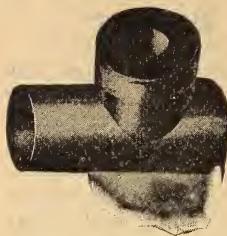
5792
Mounted
Brooder or
Hover
Thermometer
Price, \$1.00
Postpaid, \$1.10

We pack thermometers and all glassware in as safe a manner as possible, but will not be responsible for their safe delivery, owing to the great risk of breakage.

"Tycos" Incubator Hygrometer



Millions of chicks die in the shell every year for the want of proper moisture conditions. The "Tycos" Incubator Hygrometer is not a regulator of moisture, but is an indicator of conditions, so that if not correct, they may be made so. Each, \$2.00; postpaid, \$2.10. Hygrometer wicks, each 25c.



X-Ray Egg Tester

It is designed for use on an ordinary hand lamp. In a dark room the light will be strong enough to penetrate the shell and illuminate the interior of the egg. Price, 50c; postpaid, 55c.

Lamps

Order all lamps by number.

No. 1, with burner and wick for No. 0 Cyphers' incubator. Price, \$1.75; postpaid, \$1.85.

No. 2 with burner and wick for Nos. 1, 2 and 3 Cyphers incubators. Price, \$2.00; postpaid, \$2.10.

No. 3 Incubator lamp, with burner and wick, No. 3 burner, $3\frac{1}{4}$ inches diameter; $1\frac{1}{2}$ -inch wick. Height of lamp bowl, $3\frac{1}{4}$ inches; diameter $8\frac{1}{4}$ inches. Price, \$2.00; postpaid, \$2.10. If chimney wanted add 50c.

No. 4 Incubator lamp, with burner and wick; No. 2 burner, $2\frac{1}{2}$ inches diameter, 1-inch wick; height of lamp bowl, $2\frac{5}{8}$ inches, diameter 7 inches. Price, \$1.75; postpaid, \$1.85. If chimney wanted add 45c.

No. 5 Brooder lamp, complete with burner, wick and chimney; No. 3 burner, $3\frac{1}{4}$ inches diameter; $1\frac{1}{2}$ -inch wick; chimney, $3\frac{1}{4} \times 6$ inches; height of lamp bowl, $3\frac{1}{4}$ inches; diameter, $8\frac{1}{4}$ inches. Price, \$2.25; postpaid, \$2.35.

No. 6 Brooder lamp, complete with burner, wick and chimney; No. 2 burner, $2\frac{1}{2}$ inches diameter; 1-inch wick; chimney, $2\frac{1}{2} \times 5$ inches; height of lamp bowl $2\frac{5}{8}$ inches; diameter, 7 inches. Price, \$2.25; postpaid, \$2.35.

No. 7 Brooder lamp, complete with burner, wick and chimney; No. 3 burner, $3\frac{1}{4}$ inches diameter, 1-inch wick; chimney, $3\frac{1}{4} \times 3\frac{1}{4}$ inches; height of lamp bowl, $3\frac{1}{4}$ inches; diameter, $8\frac{1}{2}$ inches. Price, \$2.25; postpaid, \$2.35.



Inland Safety
Brooder Lamp

No. 8 Brooder lamp. The Inland Safety Brooder lamp requires no chimney; never smokes, burns a steady flame. The air fingers carry fresh air direct to the flame. This gives perfect combustion and more heat for a given amount of oil than with any other burner. Top of lamp is made to hold water, and it is essential to keep water there owing to heat being reflected back upon the lamp. Weight, 2 lbs. Height of bowl, $4\frac{1}{4}$ inches; diameter, $7\frac{1}{4}$ inches. Price, complete with burner and wick, \$2.25; postpaid, \$2.35.

Lamp Bowls

For Incubator or Brooder to take No. 3 burner. Bowl, $3\frac{1}{4} \times 8\frac{1}{4}$ inches. Price, \$1.25; postpaid, \$1.35.

For Incubator or Brooder, to take No. 2 burner. Bowl, $2\frac{5}{8} \times 7$ inches. Price, \$1.25; postpaid, \$1.35.

For Incubator or Brooder to take No. 2 or 32 burner. Bowl, $3\frac{1}{4} \times 8\frac{1}{2}$ inches. Price, \$1.25; postpaid, \$1.35.

Lamp Burners

No. 2 for No. 0 and No. 1 Cyphers Incubators. Price, 60c; postpaid, 65c.

No. 3 for No. 2 and No. 3 Cyphers Incubators. Price, 75c; postpaid, 80c.

No. 1 Zenith, no chimney, $\frac{3}{4}$ inch wick. Price, 60c; postpaid, 65c.

No. 2 Zenith, no chimney, 1 inch wick. Price, 70c; postpaid, 75c.

No. 32, $3\frac{1}{4}$ inch chimney, 1 inch wick. Price, 60c; postpaid, 65c.

Lamp Chimneys

Chimney, $2\frac{1}{4} \times 5$ inches, for No. 2 burners. Price, 50c; postpaid, 55c.

Chimney, $3\frac{1}{4} \times 6$ inches, for No. 3 burners. Price, 50c; postpaid, 55c.

Chimney, $3\frac{1}{4} \times 3\frac{1}{4}$ inches, for No. 32 burner. Price, 50c; postpaid, 55c.

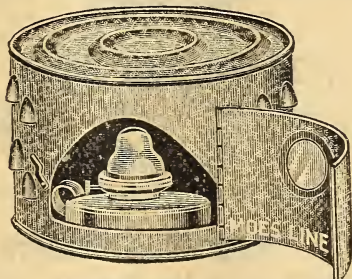
Lamp Collars

For No. 3 and No. 2 burners, 10c each.

Lamp Wicks

No. 1, 2, 3, 5c each; 50c dozen.

Moe's Fountain Heater



Solves the problem of a uniform supply of fresh water at all times, no matter how cold the weather. Can be used with all styles of fountains and makes an ideal heater fountain at a low price. Price, \$2.25. Weight, 5 lbs. Add postage.

Extras for Queen Incubators and Stoves:

	Size.	Burner.	Wick.	Price.
No. 9 Lamp, complete	6x4	3	$1\frac{1}{2}$ inch	\$2.50
No. 10 Lamp, complete	6x2 9-16	2	1 inch	2.00
No. 11 Lamp, complete	6x2 9-16	32	1 inch	2.00

Bowls Only

No. 9	6x4	1.25
No. 10	6x2 9-16	1.25
No. 11	6x2 9-16	1.25
Regulator, complete, Model C		\$3.50
Damper lever, complete		1.75
Damper lever only		1.00
Damper		.35
Wafer Thermostadt		1.25
Connecting Rod and Burr		.50
Expansion cup, $\frac{5}{8}$ -inch		.75
Expansion cup, $\frac{3}{4}$ -inch		.75
L Chimney, (state incubator)		.50

Brooder Parts

Regulator, complete	\$5.00
Regulating Arm, upper	2.00
Regulating Arm, lower	1.25
Damper only	1.25
Damper Guard	.50
Wafer Thermostadt	1.00

Add 10c to each of above for postage.

Regulators



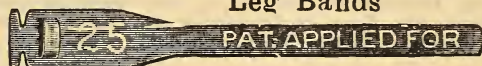
In this Regulator the water is inverted and as it expands it acts through the short lever beneath it on the connecting rod, and the down pull of the connecting rod so moves the top lever as to lift the damper. Accurate adjustment is secured through the adjustment nut and the upper end of the connecting rod. Weight, 1 lb. Price, \$2.50; postage paid \$2.60. Wafer for this regulator. Each, \$1.00; postpaid \$1.10.

Wafer Thermostat

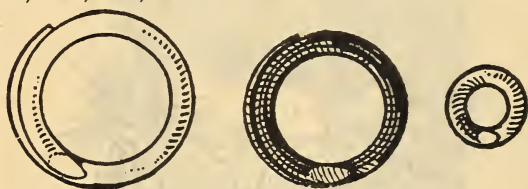


The Wafer Thermostat is made of two round concave discs, sealed together at the outer edge. The cavity between them is filled with a volatile liquid which is very sensitive to changes in temperature. Price, 75c; postpaid, 85c.

Leg Bands



Champion—The oldest and most popular band on the market. This band is made in one piece, is adjustable to fit any fowl. They will stay where you put them. Held by double lock, it is impossible for them to lose off. Made of aluminum. Postpaid, 12, 15c; 25, 25c; 50, 40c; 100, 75c.



SPIRAL COLORED

Made like a key ring, easy to put on. Birds identified easily on account of the different colors. Carried in white, green, black and pink for the following breeds: Asiatics—Brahma, Orpington and Langshans. Americans—Plymouth Rocks, R. I. Reds and Wyandottes. Mediterranean—Leghorns, Minorcas and Anconas. Price: 12, 15c; 25, 25c; 50, 40c; 100, 75c, postpaid.

Pigeons. Price: 12, 15c; 25, 25c; 50, 40c; 100, 75c, postpaid.

Petty's Poultry Punch



Latest, most convenient Poultry Punch; will not clog. Thoroughly practical. Postpaid, 25c.

SAFE EDGE KILLING KNIFE

FRENCH SAFE-EDGE KILLING KNIFE
PILLING - PHILA.

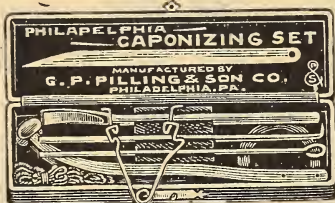
Exactly same as French Killer except cut on one side only. Price, 60c; postpaid, 65c.

Pilling Angular Killing Knife

ANGULAR POULTRY KILLER
PILLING - PHILA.

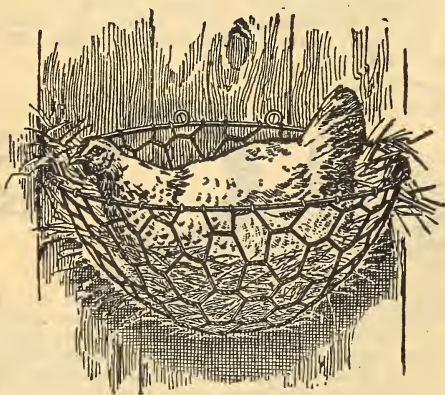
By simply turning the wrist the juglar vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water. Price, 60c; postpaid, 65c.

New Philadelphia Capon Set



This set has many admirers. It consists of a knife for making the incision; the spreader, for holding sides open; sharp hook, for piercing skin; the Lansdowne Remover, for removing the testicles. Cords with hooks for holding the bird. Cup forceps for removing any foreign matter. They are fine instruments of the best workmanship. Price, \$2.75; postpaid, \$2.85.

Wire Nests



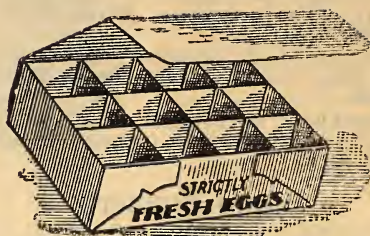
These nests are strongly made from heavy japanned steel wire. They are intended to be fastened to the wall with screws or screw hooks. There is no room on them for lodgment of lice or vermin of any kind; they are easy to keep clean and are far superior to wooden boxes.

Size, 14 inches in diameter, 1½-inch mesh. Each, 30c; ½ doz., \$1.65; doz., \$3.00. Weight per doz., 8 lbs. Add postage.

Nest Eggs

Porcelain—Weight per doz., 2 lbs. Price, 5c each; ½ doz., 25c; doz., 40c; add postage.

EGG BOXES



Paper—Intended for use in delivering eggs to private families. If you have a select egg trade you should use this box.

Doz., 20c; package of 125, \$1.50; 250, \$2.90; 500, \$5.50; 1000, \$10.00. Weight of 125, 15 lbs. Add postage.

Hatching Egg Boxes

The one great essential in shipping eggs for hatching is to secure a package that will carry them to their destination safely. Hatching eggs are either forwarded by parcel post or express in either case they are subject to rough handling and must, therefore be packed in a container that will withstand the rough usage that they are subjected to.

These boxes are specially designed to withstand the rough usage and to afford complete protection to the eggs.

	Each	½ Doz.	Doz.	Wt., Doz.
15 eggs	.....\$0.35	\$2.00	\$3.75	20 lbs.
30 eggs	......50	2.75	5.25	30 lbs.
50 eggs	......65	3.75	7.00	40 lbs.
12 eggs, duck..	.40	2.25	4.00	20 lbs.
12 eggs, turkey	.40	2.25	4.00	20 lbs.
9 eggs, goose..	.50	2.75	5.00	25 lbs.

Add postage.

Parcel Post Boxes

1 doz.	......25	1.25	2.25	20 lbs.
2 doz.	......30	1.65	3.00	25 lbs.
3 doz.	......40	2.25	4.00	30 lbs.

Add postage.

Price on all boxes subject to change.

Egg Case Fillers

Pasteboard fillers for 30-dozen case, 40c.

Pasteboard fillers, per case (for 12 30-dozen cases), \$3.25.

Weight of case, 55 lbs. Add postage.

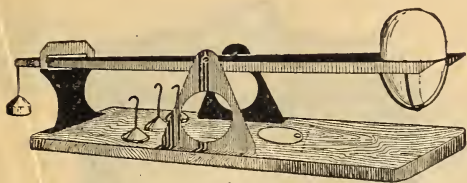
Egg Preservative

It is practical economy for the housewife, when eggs are plentiful and cheap in the spring, to preserve enough to last during the winter when they are scarce and prices high. This can be very successfully done by using Silicate of Soda in the proportion of one part to ten parts of water. By using in this way entirely satisfactory results can be obtained and eggs so treated can be used for any purpose that a new laid egg can be used. Before boiling prick shell with a pin to prevent breaking while boiling. In separating yolk from white use care as yolks will break easier than in new laid eggs.

Pints, 20c; quarts, 30c; ½ gallon, 65c; gallons, \$1.00; 5 gallons, \$4.00. Weight, 2 lbs., 3 lbs., 6 lbs., 12 lbs.

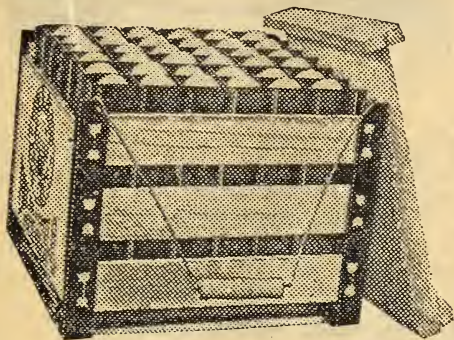
It is not advisable to ship this by parcel post as small sizes are glass packages. Quotations f. o. b. Spokane and shipped only at owner's risk.

Egg Grader Scale



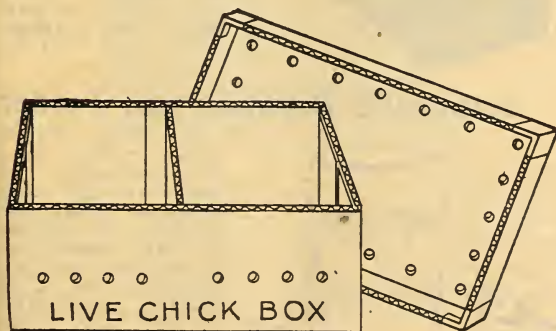
The Gilt Edge Egg Scale weighs 12 grades, graduating by the ounce per dozen, 18 to 29 ounces. Is simple in construction, quick and easy to operate. Universally used. Price, each, \$2.00; postpaid, \$2.10.

The "Steelbound" Egg Carrier



Frame is made of the best quality of sheet steel. Wood is fastened to steel by a patented indestructible carrier. Cover rests on steel process, making a light, rigid and practical frame and can not be pressed down on contents of crate. Handles are made of steel spring wire and are fastened securely to steel frame so that they cannot work loose or come off. Capacity, 6 and 12 dozen; weight, 5 and 7 lbs. Price, 75c and 85c; add postage.

Live Chick Boxes

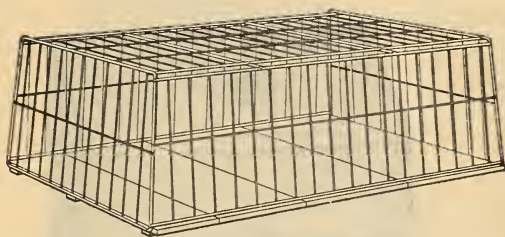


These shipping boxes are well made of highest corrugated paper, which is very strong and durable. The construction of these boxes is such as to afford the greatest strength and stiffness, without unnecessary bulk of weight.

Capacity	Size	Each	1/2 doz.	Doz.	Wt., doz.
25	9x11x5 1/2	25	\$1.60	\$2.50	14 lbs.
50	18x11x5 1/2	35	2.00	3.50	18 lbs.
100	18x22x5 1/2	50	3.30	5.00	32 lbs.

Add postage. Prices subject to change.

Clover Leaf Steel Shipping Coop



Size, 27x41x13 inches. Price, \$4.50.

Size, 27x41x20 inches high. Price, \$5.50.

This steel coop will outlast three wood crates and will save its cost each season in repairs and transportation charges.

It is made of galvanized steel bars and wire, and will not rust.

It has a narrow mesh on top, which eliminates the possibility of the poultry poking their heads through and being killed.

Self locking. Side door on top.

Weights but 24 pounds, and never gets heavier.

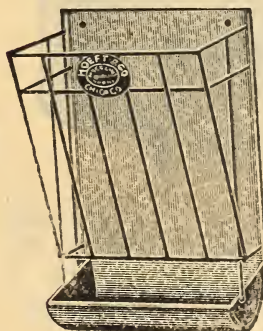
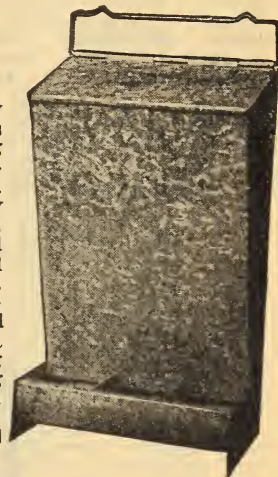
Shipping Coops

INLAND — All wood, neat, very light, but strong. Poultry raisers selling poultry at fancy prices should always use these coops.

	Each	1/2 doz.	Doz.	Weight each
No. 1—10x20x20.	\$0.55	\$3.00	\$5.50	6 lbs.
No. 2—12x24x20..	.65	3.50	6.50	10 lbs.
No. 3—20x24x20..	.85	4.75	9.00	13 lbs.

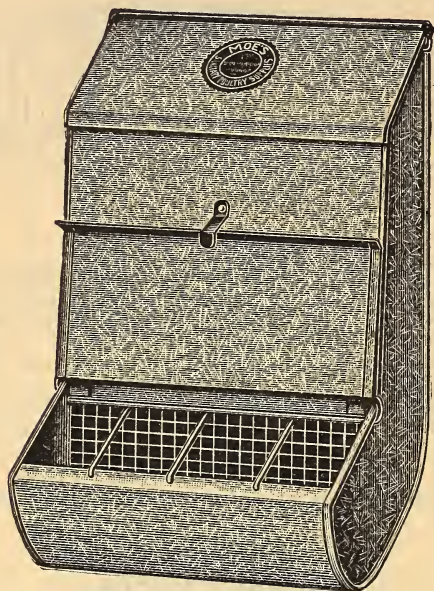
Inland Grit and Shell Box

The Inland Sanitary Feed and Shell Boxes work a material saving in grit, shell, bone, charcoal or poultry feeds. They are thoroughly practical, self-feeding, made of heavy galvanized iron. They are provided with a cover or lid, which protects the contents, and being placed at an angle furnishes a slanting top, preventing the fowls from roosting on the top of the box. Price, 3 compartment. \$1.15. Weight 3 lbs. Add postage.



Vegetable Rack Moe's Poultry

Manufactured from galvanized iron and wire. For feeding roots, beets, cabbage, sprouted oats, etc. A big time and feed saver. Every breeder needs one or more. Price, each, 75c. Weight, 2 lbs. Add postage.

INLAND DRY MASH HOPPER**Top Filler**

The curved bottom of the Hopper keeps the feed within easy reach of the birds. The gradual enlargement from the top to base prevents clogging. The wire grid and the wires running from the flange through the wire grid prevents any chance of the fowls throwing out or wasting the feed. The sloping cover prevents the birds from roosting on the Hopper, and when both covers are closed, it is rat and mouse proof. A trial will convince you that it is a hopper of the greatest merit. Manufactured of heavy galvanized iron. Made in two sizes. Length, 12 inches. Capacity, 16 quarts. Weight, 5 lbs. Price, \$2.25; add postage.

Length, 24 inches. Capacity, 32 quarts. Weight, 9 lbs. Price, \$3.25; add postage.

DRINKING FOUNTAINS**Insulated Double Wall**

Made of best quality galvanized iron, with double wall s packed with an efficient insulating material.

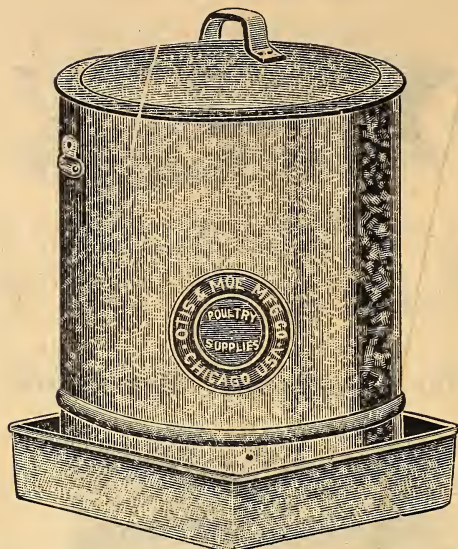
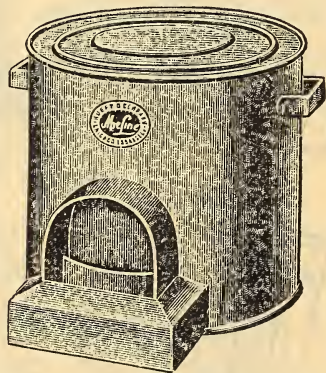
Keeps the water warm in winter, and cool in summer. The walls are insulated all around, sides, top and bottom, including the drinking cup in front.

The outlet is protected by a removable plate which prevents any floating particles from being drawn into the water container. The outlet is protected by a hood, and is of a generous size to accommodate the largest combed varieties.

2 gallons, \$4.00; weight 25 lbs.

5 gallons, \$6.00; weight, 27 lbs.

Add postage.



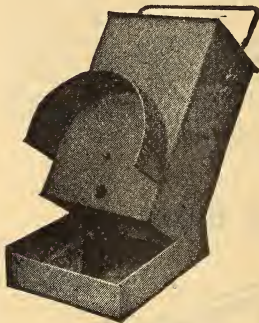
Made of heavy galvanized iron, with double walls, which keeps the water cool in summer, and retards freezing in winter. Feeds automatically, no valves to get out of order. Fills from the top. Thoroughly sanitary and as easily cleaned as an ordinary pail.

Fill the fountain in the morning and the chickens have an all day's supply of pure water at just the right temperature.

2 gallons, \$2.90; weight 7 lbs.

4 gallons, \$3.50; weight, 9 lbs.

Add postage.

Drop Bottom

Easiest thing in the world to open and clean. Clasp by which the bottom is fastened fits over the small hole under the hood, preventing sloping of water when the fount is handled. Solid brass hinge rod—no rust. Gal., \$1.35; weight, 3 lbs.; 2 gal., \$1.75; weight, 4 lbs.; add postage.

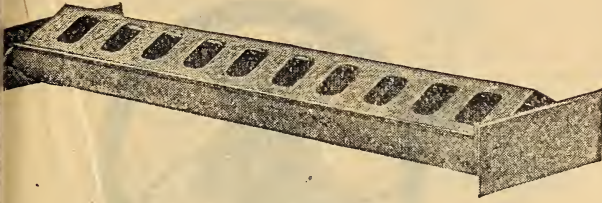
Automatic Fountain and Feeder

Feeds water, grain, grit, etc., automatically. Is easy to fill and operate. Just lift trigger, as shown in cut, which releases pan, clip remaining on jar, leaving pan without any obstruction, hence easily cleaned, and sanitary.

Made to fit any half gallon, quarter or pint Mason jar. We do not furnish jars. Made in two sizes. Ordinary size, 5-inch pan. Each, 20c; 1/2 doz., \$1.10; doz., \$2.00; weight, 4 lbs.

Large size, 6-inch pan. Each, 25c; 1/2 doz., \$1.35; doz., \$2.50; weight, 6 lbs., per doz. Add postage.

Feed Troughs



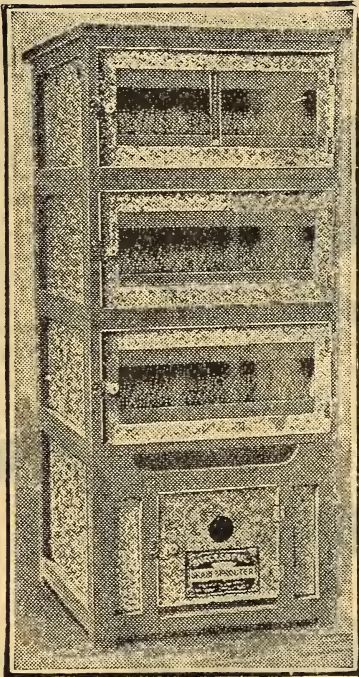
Made from one piece of metal. Gable-shaped gate top prevents chicks from getting in trough and wasting feed. Top easily moved. Easily cleaned. Wide stand at ends prevents upsetting. Made of galvanized iron.

10-inch. Each, 30c; ½ doz., \$1.75; doz., \$3.25.

20-inch. Each, 50c; ½ doz., \$2.75; doz., \$5.00.

Weight, 1-lb. each. Add postage.

Successful Sprouter



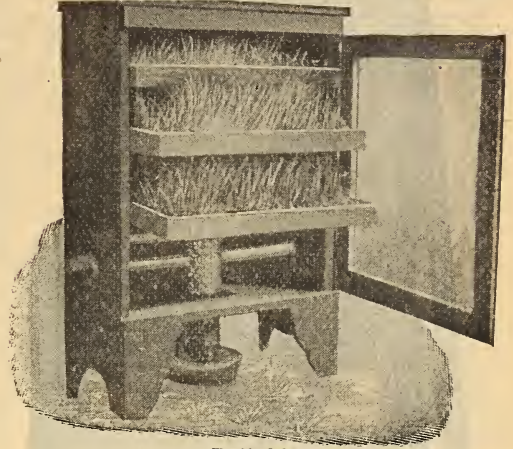
As you will notice by the illustration the Successful Sprouter is built in sections, consisting of the base, containing the lamp and the vapor pan. The size of the base is 20 inches square by 15 inches high. Each section contains two trays. The size of the section is 20 inches square and 10¼ inches high. Each tray measures 17 inches square.

Has hinged top so you can sprinkle the grain from above in one operation. Capacity, from 40 to 50 quarts dry grain, and is recommended for flocks of from 400 to 600 hens. The sprouter here shown in cut has three sections or 6 trays.

Quote 5 sections, 10 trays. Price, \$34.00.

Quote 2 sections, 4 trays. Price, \$20.00.

Grain and Oat Sprouters



Reliable

Poultry needs green feed in one form or another. All experiments by individuals and agricultural colleges have found that oat sprouts are the best green feed that can be obtained for poultry.

The Reliable Grain and Oat Sprouter has an automatic sprinkler, which furnishes moisture. Has a Moisture Receptacle, which catches the surplus drip.

Has circulation of warm air which passes all around and over each tray.

Has a regular oil heater to furnish sufficient warm air in coldest weather.

Is made of galvanized iron with large glass front.

Three trays will furnish sprouts for 50 to 75 fowls. Price, \$15.00.

Six trays will furnish sprouts for 100 to 150 fowls. Price, \$22.00.

Banner Root Cutters



No. 7

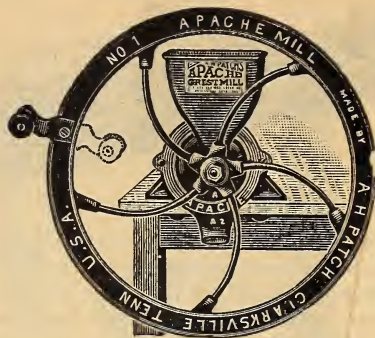
These excellent machines are so low in price that every farmer, stock raiser or poultry man should have one, as roots are the cheapest green feed for stock and poultry.

The Banner is substantially made of first-class material.

Weight, 50 lbs. Extra knives, 35c each.

Price, \$8.00.

Apache Mill

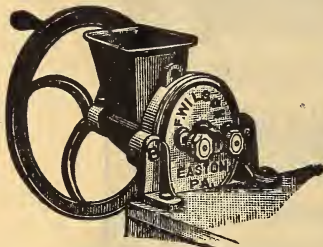


The handle can be set in two positions as shown, making a longer or shorter leverage as desired.

The Apache grinds all dry grains such as corn, wheat, rye, rice, coffee, spices, etc. Makes corn meal, hominy, chops, breakfast foods, etc. It will grind a quart of table meal in two minutes.

Large hopper. ball bearing. Weight, 40 lbs. Price, \$8.00. Add postage.

The Wilson Dry Bone Mill

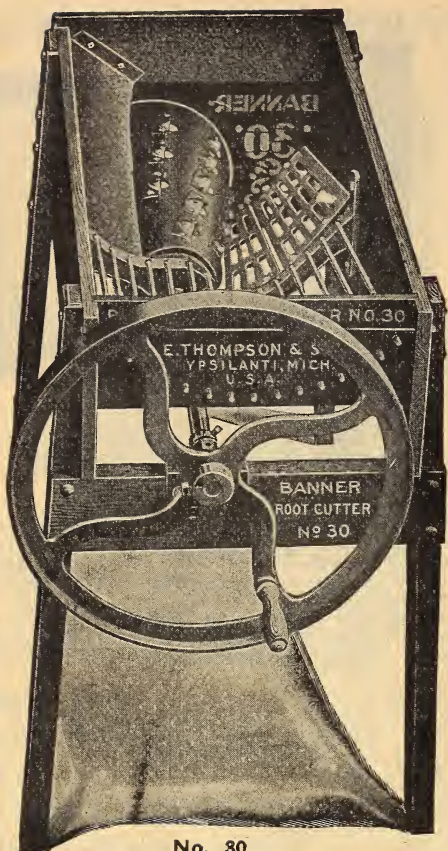


This is a practical mill, grinding all kinds of shells, crockery, grit, burnt or dry bone feed, etc. Instantly adjusted to grind coarse or fine. Weighs 33 pounds. Diameter of hand wheel, 20 inches. Price, \$7.50 Add postage.

Black Hawk Mill



WITH A BLACK HAWK MILL in the house you crack the corn and grind any kind of grain to whatever degree of fineness you desire or whichever will best suit the use or condition of your chickens. Its wide range of usefulness, its durability and small cost will appeal to the family in town with a small flock in the backyard, and it has a large enough capacity to meet the needs of those in the country who keep poultry on a big scale, weight, 22 lbs. Price, \$4.25 Add postage.

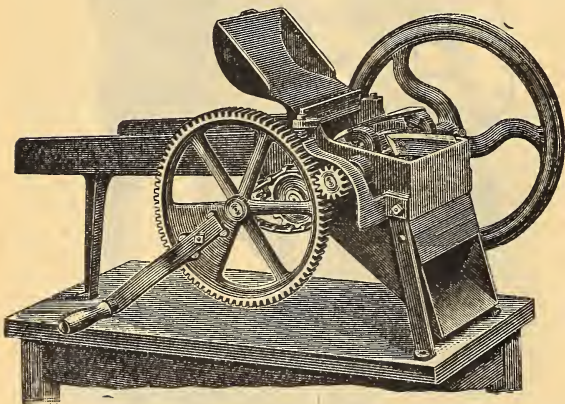


No. 30

A glance at the cut of No. 30 shows the large capacity of the hopper, 39 inches long, 18 inches wide and 18 inches deep at the lower or cutting end. The long drum with 30 knives attached. The gravity slant of the inside of the hopper. The open bottom with iron rods and open cutting grate allows dirt to escape without mixing with the cut feed.

Capacity, 1½ to 2 bushels per minute. Price, 35.00. Weight, 190 lbs.

"New Model" Clover Cutter



The Model Clover Cutter is designed for cutting either green or dry, such growth as clover, alfalfa, vegetable tops, etc. These growths are the cheapest feed that can be secured.

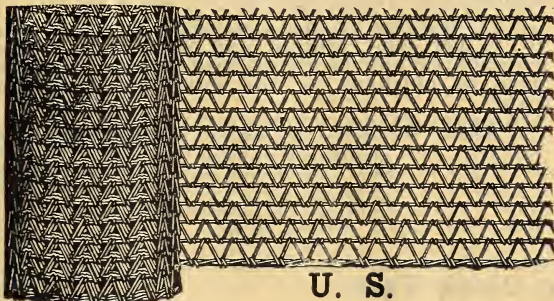
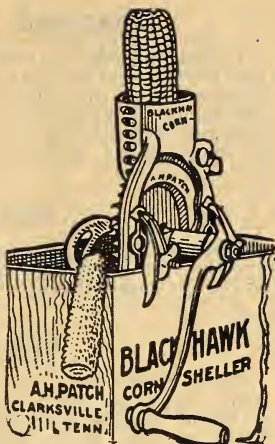
The Model is made only of iron and steel, from entirely new patterns. It is a strong feeder, has large capacity, runs unusually easy and will do perfect work indefinitely. Has removable and adjustable steel knives.

Price, with four 7-inch knives, \$25.00. Same machine with pulley, \$27.00.

BLACK HAWK CORN SHELLER

A Sheller That Shells

It can be set to shell any corn that grows. Made with ball-bearings, obviating the expense of a heavy balance wheel. Easily fastened to box by thumbscrews—no bolts nor screws required—no holes to be bored. Weight, 14 lbs. Price, \$3.50. Add postage.



U. S.

Prices per roll of 150 feet:

One Inch.		Two Inch.	
12 Inches	\$ 4.00	12 Inches	\$1.75
18 Inches	5.70	18 inches	2.50
24 Inches	7.30	24 Inches	3.15
36 Inches	9.90	36 Inches	4.30
48 inches	13.20	48 inches	5.75
		60 inches	7.15
		72 Inches	8.55

Less than roll, 3c.
square foot.

Less than roll, 2c
square foot.

Prices subject to change.

Poultry Feeds

There are three great essentials to success in the poultry business. Stock, Care, Feed. The success of the poultry man will depend upon the care and attention given to these three points. We are not supplying stock, and can not give care, but we can and are supplying feed.

Prices on all poultry feed subject to change.



corn and is more valuable. Can be fed dry or in a mash. 80-lb. bag, \$2.50.

This is a complete ground feed. It contains all the ingredients necessary to promote quick growth, to produce eggs and to keep the birds in a good condition. We have thoroughly studied the subject of feed for fowls and know this mixture will give you the desired results. Clover leaf Balanced Ration costs only a little more than either wheat or

The experience of poultry raisers is the same the world over, and that is that it is easier to hatch young chicks than it is to raise them. By using Clover Leaf Chick Feed you can give the chicks just what nature intended mixed in the right proportion to produce a quick and profitable growth without loss. 25 lbs., \$1.00; 50 lbs., \$1.65; 100 lbs., \$3.00.



CLOVER LEAF FORCING FEED, as its name implies, is specially intended for properly maturing young chicks after they are ready to be weaned from chick feed. When the chicks are from six to eight weeks old they are able to eat larger particles of grain than are found in our chick feed.

Our Forcing Feed contains a variety of grain in sizes and quantities exactly suited to the purpose for which it is intended, 50 lbs., \$1.65; 100 lbs., \$3.00.



The sharpest and hardest grit known. Free from dust. Rich in iron, silica, aluminum and mica. Each crystal has sharp edges, which cut and grind, and grind and cut until the last minute particle is worn away. In ordering state whether you want chick or medium size. 100 lbs., \$1.25.

This is composed of choicest grains in just the correct proportions that several years of experience has demonstrated is right. Every practical poultryman will readily concede the great advantage of feeding such a mixture. Price, per 100 lbs., \$2.50.



Alfalfa Meal

The value of some green food for fowls can hardly be overestimated. For a winter feed alfalfa is one of the best for this purpose. It contains more protein, lime and mineral, salts in soluble and digestive form than clover, and fowls relish it in either a green or dry state. For producing eggs it has no equal. 100 lbs. \$1.75.

Alfalfa leaves and blossoms. 25-lb. bag, \$1.00; 50-lb. bag, \$1.50; 100-lb. bag, \$2.75. Add postage.

BLOOD—DRIED

One great reason why hens do not lay in winter is because they are not supplied the proper elements to produce the yolk of an egg. This can be remedied by the use of Dried Blood. Blood is the highest concentrated form of animal food and prepared so as to include all the elements of the so-called Red Albumen. Use only tablespoonful to six hens once a day. 100 lbs., Armour's, \$5.00; Argentine, \$5.75.

Bone, Granulated

Many poultrymen prefer granulated bone to fresh or green bone. Fresh bone contains 53 per cent of moisture and 12 per cent of grease, so that when a poultryman buys fresh bones he pays for 65 pounds of useless materials in every 100 pounds he buys. Granulated Bone is made from fresh bones with the moisture and grease taken out, leaving nothing but the phosphate of lime and nitrogen. 100 lbs., \$3.50.

Charcoal, Granulated

It aids digestion, purifies the blood, regulates the bowels and promotes the general good health of the chicks and adult fowls. Fine granulated, for all mash rations and for small chicks and a coarser granulated for adult fowls. Price, 50 lb. bag, \$2.50; 100 lbs., \$4.75.

Bone Meal

This is the same as granulated bone, but ground finer, so that it can be fed in a mash or to young chicks. 100 lbs., \$3.50.

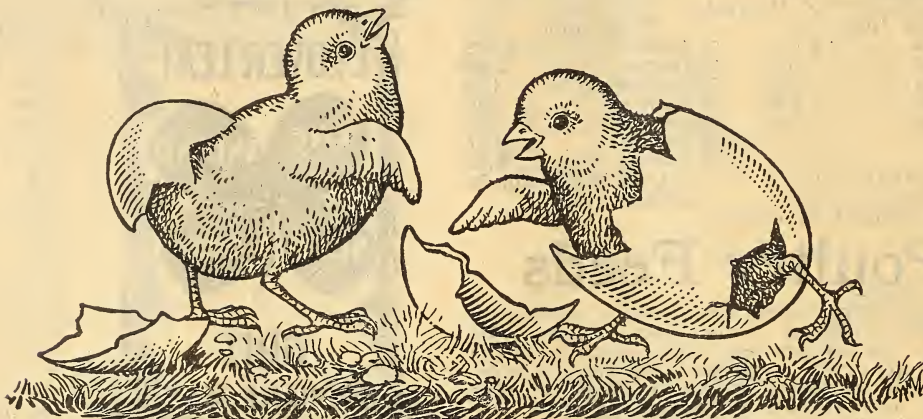
Fish Meal

This Fish Meal is processed, that is, the oleic acid fat that so frequently taints the milk of cattle and the eggs of chickens is hydrogenated and changed into steric acid fat which is a wholesome fat.

The analysis of the Fish Meal is 50 per cent to 55 per cent protein and 20 per cent bone phosphates and is guaranteed not to taint the eggs of chickens or the milk and butter of cows.

While Fish Meal is highly recommended for poultry, the great difficulty has been that it tainted the eggs. Ordinary fish meal should not be fed to poultry, but is suitable only as a fertilizer. Please note the guarantee given with this fish meal. Price, \$5.50.

Ryde's Startrite Chick Feed

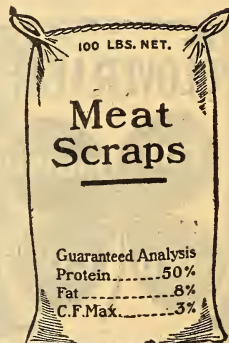


Ryde's "Startrite" Chick Food is an absolute safe and complete food on which to start baby chicks. Composed only of the choicest ingredients; sound, sweet grains, containing both animal and vegetable proteins in the correct proportions. It promotes rapid and thrifty growth. It contains a liberal quantity of buttermilk; the lactic acid being very beneficial to baby chicks, and is the one complete food on which you take no chances.

Nothing is too good for Baby Chicks at the start. They eat so little that for the difference of a few cents it pays to buy the best.

5-lb. bag., 50c; 10-lb. bag, 90c; 25-lb. bag, \$1.65; 50-lb. bag, \$3.00; 100-lb. bag, \$5.75. Add postage.

The object in buying Meat Scraps or Meat Meal is to obtain the largest amount of digestible protein possible. Meat Scraps contain from 50 to 65 per cent of protein. Armour's, \$4.50; Argentine, \$5.50.



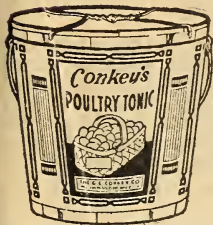
MEAT MEAL—50 per cent protein. Price, Armour's, \$4.50; Argentine, \$4.50.

Shell

The feeding of shells to poultry prevents soft shelled eggs, makes the shells strong, and eggs larger and heavier.

Eastern Oyster Shell, per bag, \$1.75.

Poultry Tonics



Conkey's Poultry Tonic fills the egg basket in spite of weather. It is not a food, but a tonic to be mixed with the regular feed during seasons when fowls get sluggish and want to loaf instead of lay. Pkgs., 30c, 60c, \$1.20; 12 lb. pail, \$2.00; 25 lb. pail, \$3.50. Mailing weights, 2, 4, 8, 17 and 30 lbs. Add postage.

Poultry Pepper Compound

This is a splendid tonic at all times. A small amount sprinkled in with a hot mash will stimulate the circulation and increase egg production. Lb., 25c; 5 lbs., \$1.15. Add postage.

LICE KILLERS AND DISINFECTANTS CONKEYS

HEAD LICE OINTMENT is for overcoming and preventing the murderous head louse which "eats up" baby chicks. Packages, 15c, 30c; 20c and 35c postpaid.

LICE FIX is a preparation in ointment form for fighting body lice. One application lasts a month. Packages, 30c, 60c; 35c and 65c postpaid.



LICE LIQUID is for painting roosts, fittings, the inside of house, nest boxes and wherever mites congregate. Cans—qt., 60c; 2 qt., 90c; gal., \$1.50. Not mailable. Express or freight, extra.

LICE POWDER is for dusting hens, nests, growing chicks and for use wherever body lice must be overcome. Packages, 30c, 60c. Mailing weight 2 lbs. and 4 lbs. Add postage.

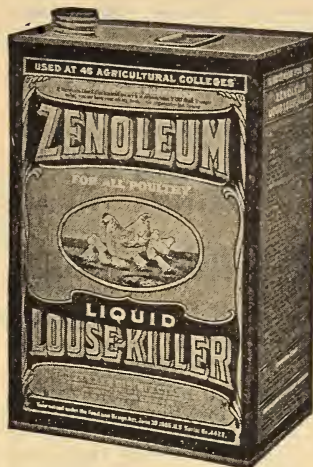


NOX-I-CIDE has a large variety of uses as a disinfectant and germicide. It is approved by poultry experts everywhere.

For spraying during the "weekly-cleanup," as a preventive of disease and a help in keeping down red mites, ticks, blue bugs, etc., Conkey's Nox-i-cide is practically unexcelled.

Cans: Pint, 50c; quart, 80c; 1/2 gallon, \$1.30; gallon, \$2.00. Not mailable. Express or freight additional.

Zenoleum



One gallon of Zenoleum makes 100 gallons of positive disinfectant. Kills vermin, cures skin trouble. Invaluable as a remedy for diseases of poultry and all live stock. Kills lice and cures mange. Disinfects incubators. Pint, 50c; qt., 80c; 1/2 gal., \$1.30; gallon, \$2.00. Not mailable. Express or freight extra.

Buhach

1 1/2 oz. pkg., 30c; 3 oz. pkg., 50c; 6 oz. pkg., 75c; 12 oz. pkg., \$1.25. Add postage.

Tobacco Dust

For use in dust baths or nests. A cheap and effective exterminator of lice. Lb., 15c; add postage.

Bird Seed

CANARY—Per lb., 20c.
HEMP—Per lb., 15c; 2 lbs., 25c.
RAPE, SWEET—Per lb., 20c.
MILLET—Per lb., 15c; 2 lbs., 25c.
CUTTLE BONE—Two for 5c.
SUNFLOWER—Per lb., 15c.
Add postage on all bird seeds.

BIRD SPECIALTIES



BATH DISHES—Made of porcelain, sanitary. Price, 20c; postpaid, 25c.

BIRD BITTERS—A remedy for nearly all the diseases of cage birds. 30c; postpaid, 35c.

BIRD HEALTH—A condition powder. Should be fed only when your bird is sick, but it should be used as a preventive of disease. 20c; postpaid, 25c.

BIRD MANNA—Keeps cage birds in constant song, improves their plumage and prevents disease. 15c; postpaid, 20c.

BIRD TONIC (Henning's)—For the prevention and cure of all diseases which cage birds are subjected to. Bottles, 25c; postpaid 30c.

BIRD SAND—Pkg., 2 lbs., price, 20c; add postage.

"CANARDYNE" (Tibbs)—For asthma and wheezing in cage birds. Bottles, 30c; postpaid, 35c.

MOCKING BIRD FOOD—The purest food obtainable for mocking birds, robins, thrushes and other soft-billed birds. 30c; postpaid, 40c.

MITE POWDER—To free the bird from mites, blow a little of the Mite Powder under the feathers of the bird in the evening by means of an insect powder gun. At night cover the cage with a piece of white cotton flannel. Early next morning remove the flannel and carefully destroy all the mites, which have crawled into it during the night, by immersing it in hot water. Price, 30c; postpaid, 35c.

MOULTING PEPPER—When fed during moulting season it produces red-tinted feathers. Price, 30c; postpaid, 35c.

NESTS—Very convenient and suitable. Price 15c; postpaid, 20c.

NESTLING FOOD—Special preparation and very highly recommended. Price, 30c; postpaid, 35c.

NESTING HAIR—Much better than any substitute. Price, 20c; postpaid, 25c.

ORANGE COLOR FOOD—Deepens and intensifies the natural color of the plumage. Feed to young birds after they are eight weeks old. Old birds during the moulting period. Price, 30c; postpaid, 35c.

PARROT FOOD—A mixed food for parrots which should be kept before them all the time. 25c; postpaid, 30c.

POLLICRACKERS—A specially prepared biscuit for parrots and all similar birds. Made in a convenient size for a bird to grasp. Is greatly relished as a change. 35c; postpaid, 40c.

SONG RESTORER—A treat and tonic for canaries, linnets, and all seed-eating birds. 25c; postpaid, 30c.

Booklet on cage birds, free on request.

POWDER GUNS—25c, 35c; postpaid, 30c, 40c.

DOG BISCUITS

THEY FIGHT FOR SPRATT'S



PUPPY BISCUITS (The Standard Puppy Food)—A perfect and whole food for puppies of

all breeds. Puppies should be started on these biscuits when about one month old and they should be continued until such time as their teeth become sound and strong, usually when they are about six months old. Pkt., 50c; mailing weight, 3 lbs. Add postage.

DOG BISCUITS—The analysis of these biscuits shows that they are, weight for weight, equal in nourishment to fresh raw beefsteak and superior to it as a food for dogs. The standard dog food; a staple and constant food for all breed of dogs. Pkt., 50c; mailing weight, 3 lbs., 10-lb., bag, \$1.75; 25 lbs., \$4.00.

Booklet, Spratt's Dog Culture, mailed on request.

DOG REMEDIES — CLAYTON'S



BOOK ON DOG DISEASES—AND HOW TO FEED—FREE

COUGHS—Cough Remedy, for coughs and colds from whatever cause. 50c.

DIARRHOEA—Diarrhoea Remedy, tablets; very effective. 50c.

DISTEMPER—Distemperine tablets, for distemper. 50c.

FLEAS—Ceoline Dog Wash, for fleas and for a disinfectant. 25c.

Cream soap, for fleas and washing dogs. 25c.

Kilflea soap, for fleas. 25c.

INDIGESTION—Digestive tablets, for all forms of indigestion. 50c.

Laxative pills. Act directly on the liver and keep the bowels in good condition. 50c.

MANGE—Mange Remedy. Best remedy known for this disease. 50c.

Skin lotion, for all skin diseases. 50c.

WORMS—Vermifuge (soft capsules.) Can be given to small puppies, as well as dogs. 50c.

Worm pills. Composed of the best remedies known for the expulsion of worms. 50c.

RUNDOWN CONDITION—Condition pills, with pepsin. A very reliable remedy in all rundown conditions. Also very valuable in cases of distemper. Price, 50c. Add 5 cents to quotations if forwarded by mail.

CLAYTON'S DOG REMEDIES have long had a reputation for being very dependable, and they are generally considered as being the most desirable. Add 5c to quotations if forwarded by mail. Booklet on care of dogs, free on request.

FISH FOOD



WAFFER FISH FOOD—This, as its name implies, comes in wafer form and is a highly nutritious preparation which is eagerly eaten by gold fish and other fish. Price, 20c. Postpaid, 25c.

Conkey's Poultry Remedies



**HAVE A CONKEY
CORNER IN YOUR
POULTRY HOUSE**

Raising poultry is pleasant and profitable when "good luck" is with you. Good luck, however, is not merely a matter of chance, but of **BEING PREPARED**. Install a Conkey Corner of remedies in your poultry house as insurance against disease, trouble, loss and disappointment. We sell Conkey's Poultry and Stock Remedies because we know they are reliable and we can guarantee them as follows:
Your money refunded cheerfully if any Conkey remedy does not satisfy.
CONKEY'S POULTRY BOOK FREE if you call at our store, or mailed for 5 cents in stamps.

BLACKHEAD REMEDY—Turkey breeders should have a package ready for instant use, for Blackhead is very hard to cure in advanced stage. When used soon enough, Conkey's Blackhead Remedy is ordinarily effective. Package, 60c; postpaid, 65c.

CANKER AND BRONCHITIS REMEDY checks cankerous growths and sores and soon restores the bird to normal. This remedy is Conkey's specific for bronchitis. Also desirable in treating individual cases of Roup and for use at shows when birds develop colds. Package, 60c; postpaid, 65c.

CHOLERA REMEDY—So-called cholera, bowel troubles, indigestion, diarrhea and kindred ailments often kill a whole flock in a few days. Diarrhea, a drowsy, listless appearance and great thirst—these are the signals to put Conkey's Cholera Remedy in the drinking water. Package, 30c, 60c; postpaid, 35c and 65c.



GAPE REMEDY — Gape worms accumulate in the windpipe and choke the chick to death. Conkey's Gape Remedy comprises two powders—both in the same box for one price—one sifted over chicks causes them to dislodge the worms in windpipe by coughing, the other is a tonic powder which is mixed in the feed—to help the bird build up its resisting powers and retain its vitality. 30c, 60c; postpaid, 35c, 65c.

LAXATIVE — Wherever a laxative or purgative is needed this remedy is just the thing for birds—by varying the dosage you can produce either a mild or strong effect. Packages, 30c, 60c; postpaid, 35c and 65c.



LIMBERNECK REMEDY—For ptomaine poisoning. Packages, 60c; postpaid, 65c.



Roup Remedy

When birds sneeze, froth in eyes, or run at nose put Conkey's Roup Remedy in the drinking water. Sick birds doctor themselves and others are protected from catching the disease. Better still, always at the first sign of "roupy weather," place Conkey's Roup Remedy in fountains—it's a great preventive.

Packages, 30c, 60c.
\$1.20; 1/2 lb. can, \$2.50;
5 lb. can, \$5.75; or postpaid, 35c, 65c, \$1.25;
\$2.60, \$5.95.

ROUP PILLS—Packages, 30c, 60c; postpaid, 35c.

SCALY LEG REMEDY applied to birds' legs will in a few treatments kill the parasites responsible for the trouble and heal up the legs with a healthy lustre. Package, 30c; postpaid, 35c.

SORE HEAD (Chicken-Pox) REMEDY—Little brown spots appear on comb, face and wattles. Under these is a pocket of virulent pus. Apply Conkey's Sore Head Remedy. Package, 30c and 60c; postpaid, 35c and 65c.

WHITE DIARRHEA REMEDY—As a preventive of bowel troubles, white diarrhea and other digestive complaints, it has given great satisfaction for many years. Once started diarrhetic conditions often sweep away the whole hatch. This remedy is also recommended as a preventive measure and for treatment of coccidiosis. Packages, 30c, 60c; postpaid, 35c, 65c.



WORM REMEDY rids birds of many troublesome worms, thus promoting a return to healthy conditions. Give it as soon as you suspect worms—it will help the whole flock. Packages, 30c, 60c; postpaid, 35c, 65c.

Dairy Supplies

DE LAVAL CREAM SEPARATORS

Skims cleanest, turns and washes easiest, construction simplest; lasts the longest.

The De Laval was the first cream separator in 1878 and it has been first ever since.

More De Laval's are in use than all other makes combined.

98 per cent of the world's creameries use the De Laval exclusively.

The machine that is best for the dairyman.

De Laval hand-size machines range in capacity from 1,350 to 225 pounds per hour—seven sizes.



De Laval Cream Separator

The De Laval is by far the most economical cream separator and always gives satisfaction.

We carry in stock the following sizes:

- No. 8, capacity 225 lbs. per hour.
- No. 10, capacity 350 lbs. per hour.
- No. 12, capacity 500 lbs. per hour.
- No. 15, capacity 750 lbs. per hour.

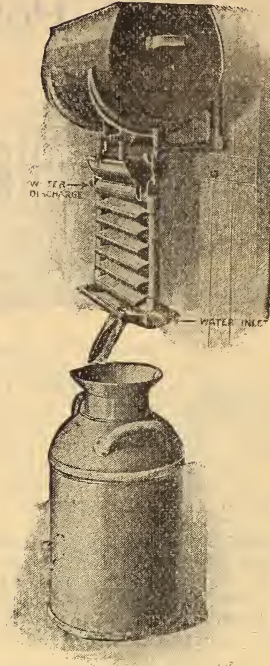
Send for catalogue.

SEPARATOR OIL

De Laval's, gallons	\$1.75
De Laval's, half gallons	1.25
Standard, gallons	1.25
Standard, half gallons .....	.75

Not available.

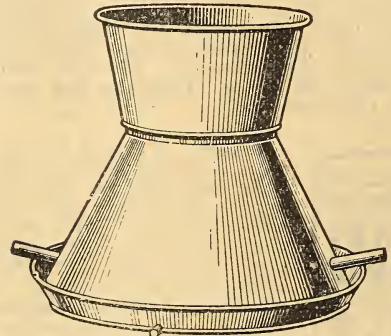
MILK COOLER



Junior

JUNIOR — This cooler is of tin construction and is as strong and durable as it is possible to construct it.

No.	Width.	Height	Capacity per Hour	Price
A	15-in.	10-in.	20-gal.	\$37.50
B	15-in.	14-in.	40-gal.	45.00
C	15-in.	17-in.	60-gal.	50.00



Conical

The Conical is a rapid cooler, conical reducing the temperature of the milk in one minute nearly to the temperature of the cooling medium. Can be used with any cooling medium, either running water, ice water, or, if a very low temperature is not required, ordinary well or spring water. The top is removable so that ice may be put directly into the cooling drum.

It is automatic, requiring no attention while in use. Low down, simple in construction, and as easily cleaned as a common milk pail. Strong and durable, will last for years. Tin construction.

No.	Cap'y of Milk Gal.	Cap'y of Water Rec'v'r Gal.	Number of Cows	Price	Wt.
No. 2	4 1/2	12	15	\$13.50	25
No. 3	5 1/2	20	25	16.50	35

CANS

OHIO—This can is made with a single neck and is fitted with the popular outside bottom loop. It is very generally used for delivering milk and cream to the local creameries and will stand years of service. It is also used for a railroad shipping can. It has round handles and will be found a very satisfactory can.

5 gallons, \$4.00 Weight, 11 lbs.

10 gallon, \$5.00 Weight, 17 lbs.

Add postage.

TIGER — The material used in the manufacture of these cans is the very best obtainable; for proof of this we call your attention to the construction of the covers, necks and bottoms; no material but the very best and most select would ever stand the strain of drawing and bending which is done in the manufacture of these cans. The parts are all smooth, without waves or wrinkles and are guaranteed not to split. Material that is not properly annealed will split and crack, but our cans are **GUARANTEED** not to do this.

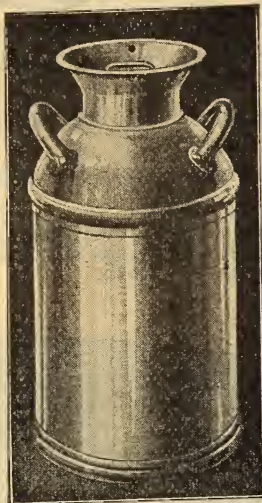
All parts are treated to two coats of pure block tin after being properly made to size so that all edges are tinned just the same as the flat surface.

5 gallons, \$5.25. Weight, 12 lbs.

10 gallons, \$6.75. Weight, 21 lbs.

Add postage

MILK CAN LINKS—Less than 100, 5c each; 100, \$4.00; 500, \$18.00; 1,000, \$35.00.



DELIVERY—Side handle, cover chained to can; well made and durable.

	Price.	Wt.
1 Gallon City Delivery	\$2.25	5 lbs
2 Gallon City Delivery	2.75	6 lbs

Add postage.

PAILS



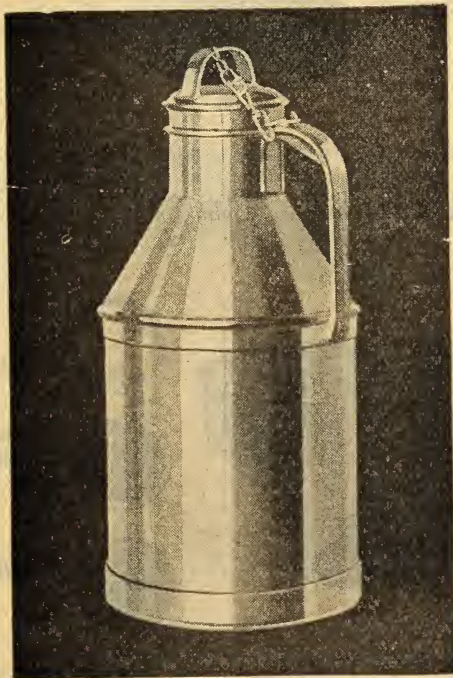
420



430

CREAM, No. 420—20-quart—Dimensions, 9x20. Made from full weight 5A charcoal plate. Heavy retinned, seamless cover. Heavy ears. Retinned bail with wood grip. Price, \$2.25; weight, 5 lbs. Add postage.

No. 430—20-quart—Made the same as 420, and fitted with glass gauge and solid brass faucet. Price, 20-qt., \$4.00; weight, 5 lbs. Add postage.



MILK, No.

4744—14-quart—

Sanitary 5A charcoal plate mirror finish, soldered inside and outside.

Price, \$2.75.

Weight, 5 lbs.

Add postage.



4744

2 Gallon St. John\$3.75 7 lbs.

3 Gallon St. John4.00 8 lbs.

Add postage.



4624

No. 4634 — Sanitary 14-quart. Extra heavy steel clad 5A charcoal plate mirror finish, 4 rivet ears. Extra heavy retinned bail, soldered inside and outside. Price, \$2.00; weight, 4 lbs.; add postage.



4634

No. 2714, 14-quart—5-A charcoal plate, mirror finish; square strainer on breast; 12¼-inch top; 9¼-inch bottom; 10¼-inch height. \$2.25. Weight, 8 lbs. Add postage.

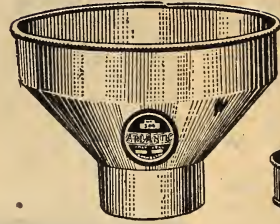


2714



1214—14-quart dairy and water pail. Bright plate; top 12¼ inches; bottom, 9 inches; height, 10½ inches. Price, \$1.25. Weight, 4 lbs. Add postage.

STRAINERS



3-quart, No. 302, \$1.25; weight, 2 lbs.; add postage.

6-quart, No. 306, \$1.50; weight, 2 lbs.; add postage.

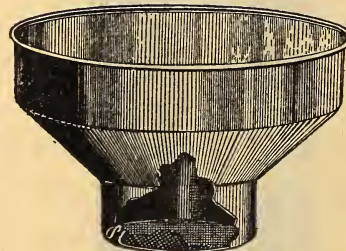
10-quart, No. 410, \$2.25; weight, 3 lbs., add postage.

Extra heavy retinned, seamless, sanitary. 70-mesh, solid brass strainer cloth. Extra slip foot for cheese cloth.



910

10-Quart, No. 910—Extra heavy retinned seamless, sanitary, double milk strainers. Inside strainer 80 mesh, outside strainer 100 mesh. Price, \$3.75; weight, 5 lbs., add postage.



Lock Spring



70-Mesh Strainer Cloth



Perforated Tin

No. 1010, 12-quart—Extra heavy retinned, seamless; removable strainers; sterilized cotton wadding used between perforated tin and strainer cloth. Each, \$2.75; weight, 4 lbs., add postage.

MILK AND CREAM SCALE

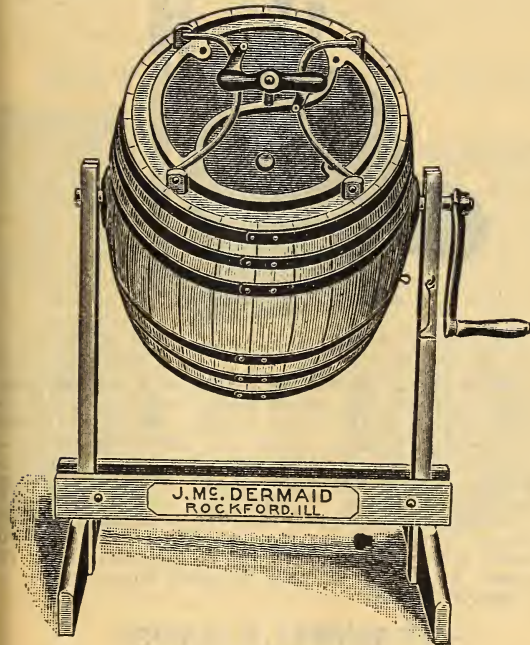
CHATILLON SPRING BALANCE

This scale is specially made for weighing milk in pails. The dial is divided into ounces. The indicator is adjustable, so that it can be set back to take out weight of pail. Each scale carefully tested.

30 pounds capacity\$7.00
60 pounds capacity 8.25
120 pounds capacity13.00
Mailing weight, 4, 5 and 6 lbs.; add postage.



Churns



BARREL—This churn is made of the best quality white oak, thoroughly seasoned and kiln-dried, having galvanized iron rim in head, making it as strong as a barrel with two solid heads. No churn works so easily, no churn cleaned more quickly, having no dashers or paddles. The churning is done by revolving the churn, which agitates the cream and makes the butter separate from the milk.

	Holds	Churns	Price	Weight
No. 0	6	3	\$8.00	27
No. 1	10	5	9.00	33
No. 2	15	7	10.00	38
No. 3	20	10	12.00	46

Add Postage

Dazey Churn



Metal



Glass

The dasher in conjunction with the square corners of the receptacle, produces a thorough and scientific agitation making it possible to churn in 6 to 15 minutes.

Perfectly sanitary, the receptacle being non-absorbent, and no cracks to harbor the cream and become rancid.

The receptacle and dash are very light and easily removed from the churn.

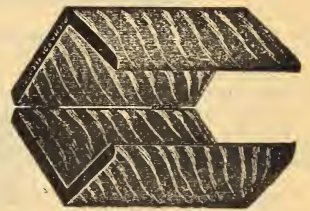
Durable because made of the very best steel and iron and with ordinary care will last for years.

Capacity	Material	Price	Weight
7½ Pints	Glass	\$3.00	10
2 Gallons	Metal	5.50	14
3 Gallons	Metal	7.25	18

Add Postage

BUTTER MOLDS

All wood, brass hinges and screws.
Price, 50c; weight, 1 lb.; add postage.



Ideal Family Butter Mold



IDEAL

This printer is well made, durable, and where only a small amount of butter is to be printed, makes fully as satisfactory prints as

one costing several times as much. The weight of the print may be quickly regulated by the two brass adjusting screws. Comes in two different patterns:

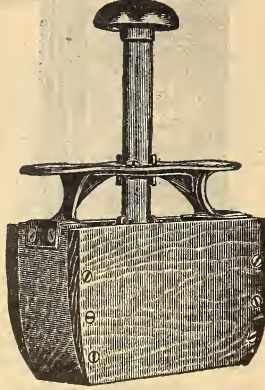
Western Style Print— $1\frac{1}{2} \times 3 \times 6\frac{3}{8}$ inches. \$2.75.

Eastern Style Print— $4\frac{5}{8} \times 2\frac{1}{2} \times 2\frac{3}{8}$ inches. \$2.75. Weight, 2 lbs.; add postage.

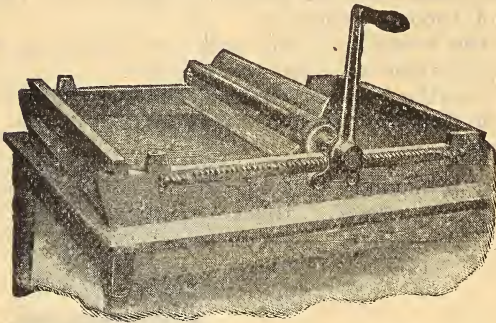
Up-to-Date Printer

Specially selected close grained hardwood; nickered brass trimmings. Size of prints quickly adjusted.

Printer to print pounds $4\frac{5}{8} \times 2\frac{1}{2} \times 2\frac{3}{8}$ in. E a c h , \$5.00; weight, 4 lbs.; add postage.



Wizard Butter Worker

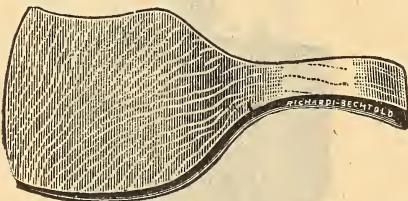


This style butter worker is a favorite with many. Butter is placed in the tray, salt added then worked by turning the crank, which causes the fluted roller to travel to and fro. The metal parts are all galvanized to prevent rust. Cut shows worker set on table, but prices below are for worker only without legs.

No. 3—Size, 17x27 in. and 3 in. deep inside, capacity, 20 lbs.; weight, 25 lbs. Price, \$22.50. Add postage.

No. 4—Size, 14x23 in. and $2\frac{3}{4}$ in. deep inside, capacity, 10 lbs.; weight, 20 lbs. Price, \$18.00. Add postage.

Butter Ladles



Dairy Spoon

Corrugated Butter Paddle— $2\frac{3}{4} \times 9\frac{3}{4}$, each, 25c.

Dairy Spoon—5x12, each, 40c.

Plain Butter Paddle—5x12, each, 35c.

Postage 5c extra.

Butter Color

Wells & Richardson, bottles, 40c, 75c, \$1.25.

Add 5c additional for postage.

Gallon cans, \$6.25. Weight, 12 lbs. Add postage.

MILK BOTTLES

There are various grades of milk bottles on the market and, unfortunately, there are still some people who consider a milk bottle a milk bottle. Our bottles are the well known and well made Thatchers. Our large dairies and creameries use the Thatcher almost exclusively. There must be a reason.

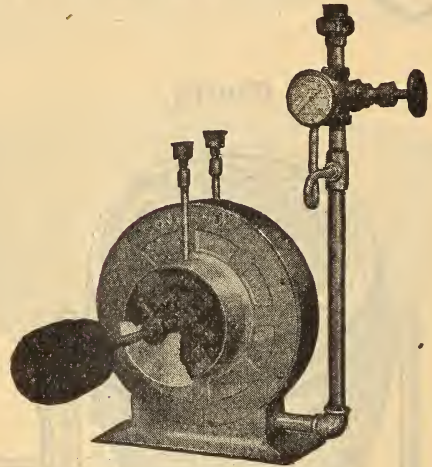
Half Pints, doz., \$1.00; gross, \$7.25.

Pints, doz., \$1.25; gross, \$9.55.

Quarts, doz., \$1.50; gross, \$12.70.

Not mailable.

TURBINE BOTTLE WASHERS



The 20th Century

This bottle washer is made with a new gearless turbine, the speed being controlled by the governor. When the speed of the turbine reaches a certain point the governor operates to prevent the speed exceeding the limits of safety. This governor is in a separate case to keep out the moisture, which would have a tendency to cause the bearings to rust and cause it to act too slowly. The cover to this case can be removed in a moment and the speed adjusted at any desired point.

Price, \$45.00.

BOTTLE CAPS



BOTTLE CAPS—No lift, 60c per 1000; Perfection, with lift, 70c per 1000.

Cream and Buttermilk Caps, 70c per 1000.

Special prices on barrel lots of 50 M. printed with your name and address free.

Weight per M., 3 lbs. Add postage.

SINGLE VALVE FILLER

The cut herewith is of a very simple and practical bottle filler, for filling bottles one at a time and suitable for dealers filling 50 to 300 bottles per day. It consists of a cylindrical can having a stiff, heavy bottom to which is attached a standard bottle-filling valve. The operation is easily understood from the cut. Bottles can be filled in delivery cases or when setting on table or bench. Fills all bottles to an even height, no topping or refilling. Valve can be taken apart for cleaning in less than five seconds. Price, tin can, no case furnished, \$21.00.



Rolled Flat Steel Wire, Riveted in each intersection and Hot Galvanized after made. They are constructed for carrying quart bottles and have a lower partition so that they will hold pint bottles also. 6-quart size. Price, \$2.00; weight, 4 lbs.; add postage. .8 quarts. Price, \$2.25. .Weight 5 lbs.; add postage.

Galvanized, with improved handles.

12 bottles, $\frac{1}{2}$ pints, ea. \$1.50
6 bottles, pints, each.....\$1.25

Weight, 3 lbs. and 4 lbs. each; add postage.

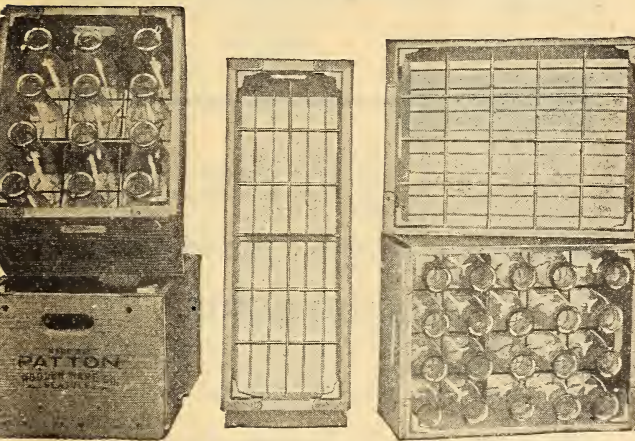


BRUSHES—Bottle Fillers

For air tubes, white bristle, brush part $\frac{1}{2}$ inch diameter, 3 inches long, length over all 20 inches. Price, \$1.75.

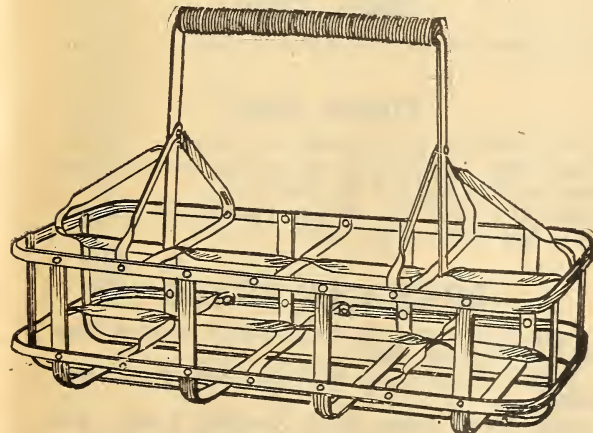
Add 5c to all brushes if forwarded by mail.

BOTTLE DELIVERY CASES



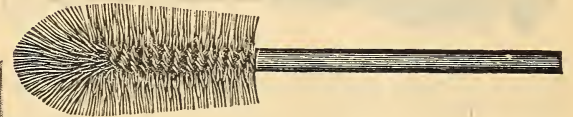
12-quart, \$1.75; weight, 13 lbs.; add postage.
20-pint, \$1.75; weight, 11 lbs.; add postage.
20 half-pint, \$2.00; weight, 13 lbs.; add postage.

BOTTLE CARRIERS



These Carriers are made from $\frac{3}{8}$ -inch Cold

Bottles, Milk



No. 72.—See description bowl brush No. 72. Price, 65c.



No. 73.—See description bowl brush No. 73. Price, 65c.



No. 86.—See description bowl brush No. 72, with exception of stiff bristle and better quality. Price, each, 70c.



No. 123.—Stiff gray hair, brush part 3 inches diameter, tapered to 1 $\frac{7}{8}$ inches diameter at handle end; 6 $\frac{1}{2}$ inches long; hickory handle, $\frac{3}{4}$ inch diameter, 5 inches long, tapered to $\frac{1}{2}$ inch diameter at end. Price, 65c.



No. 60.—Stiff bristle body and tufts, brush part 3 $\frac{1}{4}$ inches wide, 2 $\frac{1}{4}$ inches thick, 7 inches long, hardwood handle, $\frac{1}{2}$ inch diameter; 10 inches long. Price, 45c.



No. 124—Same brush as No. 123, with the single exception of handle being 9 inches long. Price, 65c.



No. 82—Extra stiff gray hair, brush part 3 inches diameter, $5\frac{1}{2}$ inches long, hickory handle, $\frac{5}{8}$ inch diameter, 10 inches long. Price, 55c.

Bottles, Test



No. 1—For Babcock 10% milk bottles; white bristle; brush and handle $7\frac{1}{2}$ inches. Price, 20c.



No. 107—For Babcock cream bottles; white bristle in body and tuft; length over all, 11 in. Price, 30c.

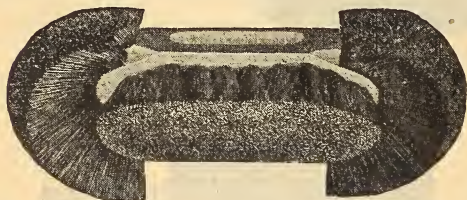
Bowl

No. 104—De Laval, small, black china bristle; brush part $\frac{3}{4}$ -inch diameter, $2\frac{1}{2}$ inches long; length over all $8\frac{1}{4}$ inches. See cut spout brush No. 104. Price, 20c.

No. 72—Black china bristle; brush part $2\frac{3}{4}$ inches diameter, 6 inches long; handle 9 inches. See cut milk bottle brush No. 72. Price, 65c.

No. 73—Black China Bristle; brush part $3\frac{1}{4}$ inches diameter, 6 inches long, hickory handle, $\frac{1}{2}$ inch diameter; 9 inches long. See cut milk bottle brush No. 73. Price, 50c.

Can



No. 08—Stiff Palmetto Fibre; length on face, 9 inches; width on face, 5 inches. Price, 65c.



No. 412—Palmetto fibre, straight handle, brush part $4\frac{1}{2}$ inches diameter; $5\frac{1}{2}$ inches long; length over all, 24 inches. Price, 90c.



No. 416—Stiff Palmetto fiber, brush part 5 inches wide, 4 inches long; length over all, 10 inches. Price, 50c.

MILK COOLER



No. 286—Palmetto fibre, covered handle, $14\frac{1}{2}$ inches long. Price, 50c.

Spout



No. 104—See description bowl brush No. 104. Price, 20c.



No. 10—Extra stiff gray bristle; brush part 5 inches by 2 inches diameter; length over all, 13 inches. Price, 35c.

Add 5c to all brushes if forwarded by mail.

RUBBER RINGS

No. 3033—For No. 5, 10 and 12 DeLaval Separators. Each, 15c.

No. 3557—For No. 15 DeLaval Separators. Each, 15c.

No. 1, 1B, 2 and 2B Empires. Each, 15c.

When ordering rings for De Laval Separator give number of machine and state whether new or old style.

Balls, Steel

For Empire Separators, 20c each.

Points, Steel

For Empire Separators, 20cc each.

No. 3072—For No. 5, 10 and 12 DeLaval Separators, old style, 2 for 25c.

No. 4110—For No. 12 and 15 DeLaval Separators, new style, 2 for 25c.

MILK CAN SEALS

Seal your cans; insure yourself against loss, at a very small cost.

Lead, single wire, 100, 50c; 500, \$1.75; 1000, \$3.00.

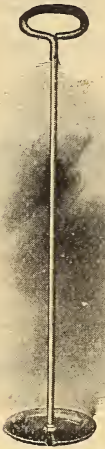
Seal press, each, \$2.75; weight, 2 lbs.; add postage.

Stirrer and Sampler

Duro Sampler has saucer-shaped disc of steel firmly attached to wrought iron handle of sufficient length to reach bottom of 10-gallon can



Ideal
Sampler



Duro Stirrer

Duro Stirrer is the same as Duro sampler with the exception that there is five holes punched in bowl of stirrer to make stirring more effective.

Ideal Sampler has long handle to reach bottom of milk can and is just as shown in cut.

Both samplers and stirrer, 60c each. Weight, 2 lbs. Add postage.

The use and convenience of this sampler can be readily seen. Well made. Each, 60c; postpaid, 70c.

THERMOMETERS

Thermometers and all glassware are packed in the most careful manner, but owing to the great liability of breakage when sent by parcel post we will not guarantee their safe delivery nor be responsible in case of breakage. To avoid loss the best plan is to have them insured, and if you so desire, include insurance with your remittance.

Glass Floating, Best Grade

5700—Churn Thermometer, glass cylinder, hand written paper scale, 1° graduation, accurate within one division of the scale, mercury tube, shot weighted, guaranteed to float upright. Approximate scale range, 10° to 110° F., 10 inches. Price, \$1.50; postpaid, \$1.60.

5701—Pasturizing Thermometer, glass cylinder hand written paper scale, 2° graduation, accurate within one division of the scale, mercury tube. Approximate scale range, 30° to 220° F., 10 inches. Price, \$1.50; postpaid, \$1.60.

Ordinary Grade

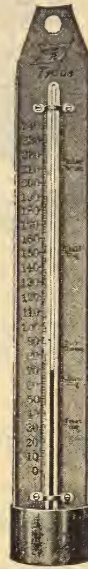
5715—All glass floating Churn and Pasteurizing Thermometer. Approximate scale range 20° below zero to 150° above. Length, 8 in. Mercury filled tube. Price, 60c; postpaid, 70c.



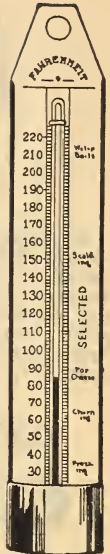
5700



5701



5705



5740

Selected Common Grade

5740—Spirit, selected common grade. Nickeled, sliding guard; red liquid tubes; 8 inches. Price, \$1.00; postpaid, \$1.10.

5705—Flanged, metal scale Churn and Pasteurizing. Ten-inch electro silver plated scale, gold plated straps and screws, magnifying mercury filled tube, sliding guard; approximate scale range, zero to 220° F. 10 inches. Price, \$1.75; postpaid, \$1.85.

Anti-Cow Kicker

Does not excite the cow, nor disturb the flow of milk. Indispensible for breaking heifers. Cows with sore teats, or vicious kickers. Can not wear out. Put on or off in 15 seconds. Guaranteed to be an absolutely perfect anti-kicker or put on loosely as hobble for cow, horse or mule. Price, \$1.25; postage extra. Weight, 2 lbs.

Wagner's Calf Weaner



A perfect, humane and effective device. The hinge construction of this article allows the calf and cow to graze in the same pasture, yet effectually prevents suckling. It is easily applied. Once used always used. KANT SUCK Weaners have no equal.

Calf size, 75c; postpaid, 80c.

Cow size, \$1.00; postpaid, \$1.05.



5715

BRONZE BULL RING

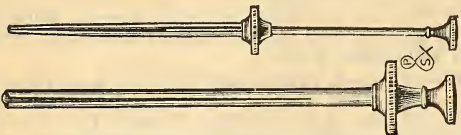


Is made of a special material of hardest and toughest texture, giving a very high and smooth finish. A quality product made to meet the demand of stockmen who require something superior to the ordinary ring. The sharp smooth point cuts a clean hole. Size $2\frac{3}{8} \times \frac{3}{4}$ inches. Price, \$1.75; postpaid, \$1.80. Large size, \$2.25; postpaid, \$2.30.

CATTLE INSTRUMENTS



CATTLE TROCAR—Will promptly and safely relieve bloat. Every owner of cattle should have one on hand. Easy to use. Price, \$1.50; postpaid, \$1.60.



TEAT DILATOR—A finely made instrument, dilates without cutting. Nothing better made for this purpose. Price, \$1.00; postpaid, \$1.10.



FEVER THERMOMETER—The normal temperature of the horse is 99 3-5 degrees, of cow is 99 to 102 degrees. Every owner of stock should have a Fever Thermometer for immediate use when an animal is taken sick. You can thus distinguish whether or not it is a febrile (fever) disease, and if it is, proceed at once to give necessary medicine to prevent the fever rising. They are easy to use. These Thermometers are tested and registered. Price, \$2.00; postpaid, \$2.10.

GARGET SYRINGE—

Has a special make of rubber tubing, which allows the flow to be continuous instead of intermittent. It also has a double channel metal tube. One part of this tube is to inject the Garget Remedy into the udder and the other part allows the fluid, dead

germs and other impure matters to escape from the udder.

Pilling Garget Syringe Outfit Consists of

Pilling Garget Syringe, Pilling Remedy (30 treatments). Pilling Animal Soap. Price, \$4.00; postpaid, \$4.10.



HARD RUBBER TEAT PLUG—Especially designed for two purposes: First, to prevent dropping of milk in cows where there is relaxation of the little muscles at the end of the teat and consequent leakage of milk; and, secondly, to dilate the canal of the teat above the muscle in cases where hard milking is due to the contraction of this part of the canal. Price, 50c; postpaid, 55c.



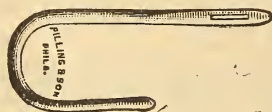
MILKING TUBE—Plain, plated 3 inches. Price, 40c; postpaid, 45c.



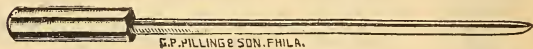
MILKING TUBE—Self-retaining, 3 inches. plated. Price, 50c; postpaid, 55c. 4 inches, 60c; postpaid, 65c.



TEAT EXPANDERS—Of metal, nickel-plated, is intended to expand and enlarge the opening of hard-milking teats. Also, at the same time, it expands the milk canal; it is considered the best method of treating hard milkers. Easy to use. Price, 50c; postpaid, 55c.



LEAD PROBE—For enlarging opening in the cow's teats. 25c; postpaid, 30c.



The Pilling Teat Opener is simply used as a reamer or dilator to pass the obstruction. It does not cut the obstruction. It is highly recommended by veterinary surgeons, dairymen and stock breeders, who have successfully used it for years. Price, 75c; postpaid, 80c.

MILK FEVER OUTFIT—Is

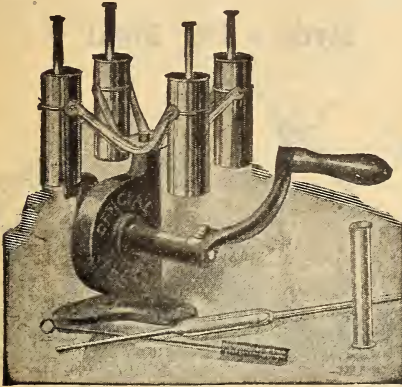
made, according to specifications described in Farmers' Bulletin, 45, issued by the Bureau of Animal Industry, U. S. Department of Agriculture, except we do not use the rubber bulb, which so easily rots; but in its place we furnish, without extra charge, our patented Metal Pumps, which will last a lifetime.

Milk Fever Outfit Metal Pump and Regulator Tube, \$3.50; postpaid, \$3.60.



MILK TESTER

Many thousands of "Official" testers have been sold. It is used by dairymen, farmers, in hotels, restaurants and laboratories. It does accurate work, and with the instructions furnished anyone can make a perfect test. The most convenient and accurate of any low priced hand tester ever offered.

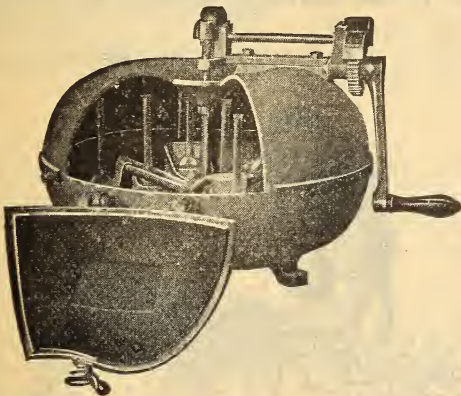


Made in two and four bottle sizes. Each tester includes a full set of bottles, pipette, acid measure, test bottle brush and full directions for making tests.

	Price	Weight
No. 1—2-bottle, milk only.....	\$6.50	16
No. 2—4-bottle, milk only.....	7.50	18
No. 3—2-bottle, milk and cream....	7.25	16
No. 4—4-bottle, milk and cream....	8.25	18

Order by number. Add postage.

20th Century Milk Tester



This is an especially fine hand tester, and is built for dairies which are without the steam apparatus necessary to run a turbine tester. A speed of from 900 to 1,000 revolutions per minute can easily be obtained. All gears are encased and at the top of the machine; are milled in special milling machine; are absolutely accurate and therefore noiseless. The bottles are perfectly enclosed, doing away with danger from flying glass, acid, etc., should one of the bottles break. No glassware included, 8 bottles. Price, \$22.00.

ACID DIPPERS

17.5 C. C.—Each, 50c; 1/2 doz., \$2.50; doz., \$4.75.
8.8 C. C.—Each, 50c; 1/2 doz., \$2.50; doz., \$4.75.

ACID MEASURE

17.5 C. C.—Each, 25c; 1/2 doz., \$1.25; doz., \$2.00.
8.8 C. C.—Each, 25c; 1/2 doz., \$1.25; doz., \$2.00.

PIPETTES—Plain

17.6 C. C.—Each 50c; 1/2 doz., \$2.50; doz., \$4.50.
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TEST BOTTLES

Cream, 6-inch, 9 gram, graduated to 50%.
 Cream, 9-inch, 9 gram, graduated to 50%.
 Milk, 6-inch, 18 gram, graduated to 80%.
 The above three test bottles
 Each, 50c; 1/2 doz., \$2.50; doz., \$4.50.
 Skim Milk—Each, \$1.00.

We do not guarantee safe delivery of glass ware.

STRAINER CLOTHS

ABSORBENT COTTON—An approved cotton for filtering milk, prepared in rolls, neatly wrapped and sealed. One 1-lb. roll, \$1.00; add postage.

RED CROSS FILTER CLOTH—Is a specially woven cloth with the nap raised and is intended to take the place of ordinary cotton and strainer cloth, as it combines in itself the qualities of both. It is especially commended for use in filter vats, and can strainers. 1-lb. rolls, 17 in. wide by 20 feet long, each, \$1.50; add postage.

Squares, 7x7 inches, packed 50 in box. Price, \$1.50. Weight, 2 lbs. Add postage.

PARCHMENT BUTTER WRAPPERS

8x11—Plain 100, 25c; 500, \$1.15; 1000, \$2.00
 Printing name and address additional: 500, \$2.25; 1,000, \$3.00; 1,500, \$3.25. Not less than 500 printed.

Weight per thousand, 7 lbs.; add postage.

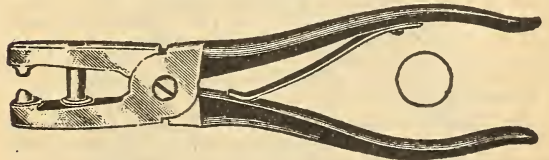
PUNCHES

Ear Label Punch



This punch is made for inserting the labels only. It is necessary to cut hole in ear and also to seal labels. Price, \$1.50; postage, \$1.60.

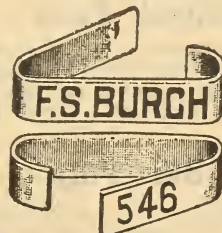
Combined Punch and Plier



This combined punch and pliers are especially made for adjusting the buttons. The cutter makes the necessary hole, and the nipples seal the button.

Each, \$1.50; postpaid, \$1.60.

EAR TAGS



Sheep and Hogs. Cattle
 25 name and number\$.90 \$1.00

50 name and number	1.25	1.50
100 name and number	1.75	2.25
500 name and number	7.25	9.75
25 name only or number only.....	.75	.85
50 name only or number only.....	1.00	1.25
100 name only or number only.....	1.25	1.75
500 name only or number only.....	5.00	7.25

Name can be put on the one side, numbers on the other. Not more than 10 large size letters can be put on hog or sheep sizes, or fifteen on cattle. Mailing weight, 100 sheep size, 1 lb.; 100 cattle, 3 lbs. Add 5c per 100 or less number for postage.



IDEAL EAR BUTTONS

Are made of pure hardened aluminum, consisting of two parts or sleeves, thus giving an absolute seal that will not become loose.

25, \$1.50; 50, \$2.00; 100, \$3.50; 500, \$15.25.

Add 5c per 100 or less number for postage.

SALE TAGS

These tags are very popular with hog men for identification during sales, as they are easily fixed in the ear with the regular hog rings. Made of aluminum.

25, 75c; 50, \$1.25; 100, \$2.25.

Add 5c for postage to above prices.



STANCHIONS

No. 3001—Without alignment. Hung at top by a bolt with swivel connection. Below it is attached with double chain connection. Made of special steel U-bars with hinge at side on the bottom and cow-proof lock at top. The lock is easily opened with one hand. The hinge is as strong as the rest of the stanchion, will not get out of order. The stanchion is adjustable for neck space, varying in width from 6½ to 7¾ inches. This stanchion is unlined.

Price, \$7.50.

No. 3007—With alignment. This stanchion is lined with thoroughly seasoned birch, carefully shaped, polished and dipped in pure linseed oil. Side bars are made of special steel U-bars, with one hinge at side of bottom. Adjustable to varying widths of neck space. Fitted with cow-proof lock, easily operated with one hand.

Price, \$8.50.

Owing to market changes, we ask that you write for prices.

Stock Feed

The quotation made on stock feed are present market values. These are all subject to change. All feeds will be shipped at prices prevailing when goods are shipped. Write for prices in quantities.

Beet Pulp

This is conceded to be a great milk producer, and has never disappointed when compared and tested with other milk producing feeds. (None in stock.)

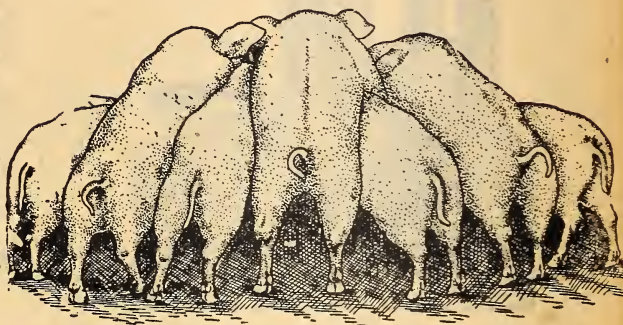
Oil Meal

The advantages of feeding Oil Meal are well known.

Oil Meal\$3.75

Write for prices, stating amount wanted. Prices subject to change.

Ryde's Pig Meal



MAKING HOGS OF THEMSELVES

RYDE'S PIG MEAL

is the greatest pig developer on the market today. It contains every possible ingredient in the correct proportion that they require to push them forward to maturity in the shortest possible time.

25-lb. bag, \$1.60; 50-lb. bag, \$3.00; 100-lb. bag, \$5.50. Prices subject to change Add postage.

SAVE YOUR CALVES



From practical tests it has been fully demonstrated that as good calves can be raised on Ryde's Cream Calf Meal as can be raised on milk, and by using Ryde's Cream Calf Meal they can be raised much cheaper. This is one of the richest and best substitutes for milk on the market, as it contains everything needed to make calves grow and keep them healthy, as the ingredients are prepared in the most digestible forms. It is easy to use and has proved to be the most profitable feed to use in the rearing of calves. 100 pounds makes 100 gallons perfect milk substitute. 25-lb. bag, \$1.75; 50-lb. bag, \$3.00; 100-lb. bag, \$5.75.

Add postage.

DIGESTER TANKAGE

Every well informed feeder knows that corn and other home grown feeding stuffs lacks protein and phosphates.

Brood sows must have plenty of protein and phosphates in their rations, otherwise they will farrow weak, puny pigs, defective in bone and muscle.

Price, 100 lbs., \$5.25; 500 lbs., \$25.75; ½ ton, \$50.00; ton, \$95.00.

STOCK TONICS

Conkey's

STOCK TONIC—It keeps up appetite, insures full digestion of the ration, prevents waste of feed, that is, brings you the most possible return for every pound of feed. Not a food itself, but a medicine. 30c, 60c; mailing weight, 2 lbs., 4 lbs.; add postage.

STOCK REMEDIES

Conkey's

FLY KNOCKER—All the time your stock is pestered by flies you are losing your profits. Use it on your horses and cattle night and morning. Does not injure the hide; odor will not taint milk. Keeps flies off, kills every one it hits, prevents lice and grub. Qt., 70c; 2 qts., \$1.15; gal., \$1.75. Not mailable.

Gold Coin

COLD AND DISTEMPER REMEDY—A specific for distemper in young or old horses. Pkg., 60c; postpaid, 70c.

CONDITION POWDER—For sick animals. A high class medicine for fevers and all acute diseases. Package, 60c; postpaid, 70c.

FLY KILLER—All the time your stock are bothered by flies you are losing your profits. Use it on your horses and cattle night and morning. Does not injure the hide, odor will not taint milk. Keeps flies off, kills every one it hits, prevents lice and grub. 2 qts., \$1.15; gal., \$1.75. Not mailable.

WORM POWDER—Kills all worms and bots in horses, hogs, sheep, dogs, etc. Package, 60c; postpaid, 70c.

B-K

B-K
Bacili-Kill

B-K is a very powerful disinfectant but not a poison. It is much stronger than coal tar disinfectants. It is cheaper to use than other disinfectants because of its great strength and the amount of dilution that can be used. It is odorless and colorless. Very largely used in stables and by our large dairies and creameries. Also by hotels, restaurants, etc. 4 oz. bottle, 35c; 10 oz. bottle, 60c; 32 oz. bottle, \$1.25. 1 gallon, \$3.00; 5 gallons, \$12.50.

Not mailable.

Payne's Scours Special



It is well known that scours in calves is a source of great annoyance and loss. This should be given immediate attention, so that it may be the more easily checked. Payne's Scours is also used for cows, horses, sheep, pigs and poultry. Full directions on each bottle. \$1.00.

Not mailable.

Wyandotte



This is the great cleaner and cleanser used by nearly all dairymen and creameries. This is specially prepared for the purpose for which it is used, and the best recommendation it has comes from those who have used it and compared results obtained from the use of this and other similar preparations. It is conceded to be the best preparation of its kind manufactured. 5-lb. bag, 50c; 80-lb. kegs, \$6.25; 280-lb. barrels, \$18.00.

Alkali Special, 300 lbs., \$21.50.

Add postage on the 5-lb. bags.

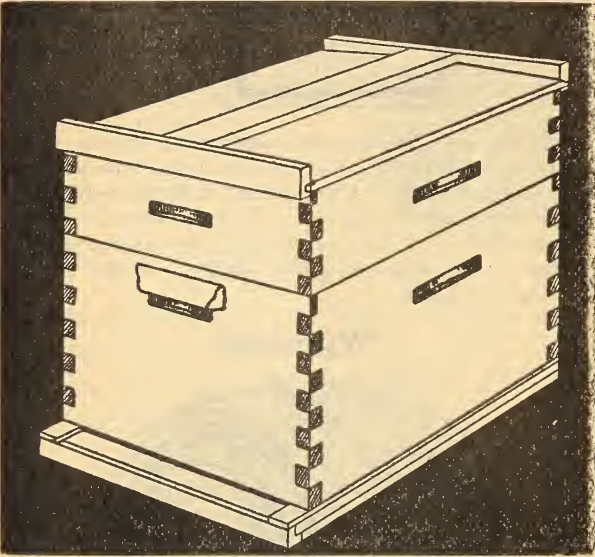
Prices subject to change.

Bee Supplies

DOVETAILED HIVES—The dovetailed hive is now the leading hive, as it contains many of the most desirable features of the various hives for the rapid handling of bees, and is one of the cheapest and best hives manufactured.

DESCRIPTION—The body is 7/8 inch thick, and is fitted with metal rivets of an improved style. Outside of body is 13 7/8x20 inches, and 9 1/2 inches long. The body holds eight Hoffman frames, L size, and a division board. The frames hang below the top edge of the hive, so that there is a bee space above them, but the bottoms of the frames are flush with the bottom edges of hives, the bee space being made by the projection of the sides and can be enlarged or decreased by inverting bottom board. The bottom is 14x21 inches. The cover is made with grooved cleats at each end to prevent warping. The supers are the same size as the body of hive, but only half the depth, so that when two are put together they make a full-depth body. The inside width of the body is 12 1/2 inches, giving room for eight frames and a division board. There are objections to using sections other than 4 1/2x4 1/2, as they require special sized shipping cases and special sized cartons.

Complete hive consists of 1 body, 1 super, 1 bottom board, 1 cover, 8 Hoffman brood frames, 2 wedges for super, 6 section holders, 6 slotted separators.



SUPER-EIGHT FRAME HIVE.

			Wt.	Wt.
			Nailed	5-K. D.
			Lbs.	Lbs.
Super Comb Honey	\$1.25	\$5.25	9	40
Super Extracting	1.25	6.25	10	45
Super Empty				
Comb Honey	.55	2.25	9	40

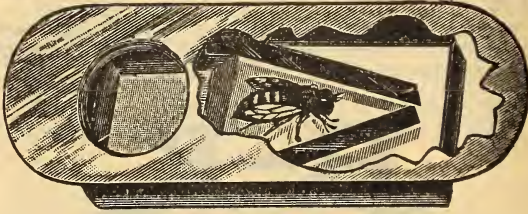
SUPER-TEN FRAME HIVE.

			Wt.	Wt.
			Nailed	5-K. D.
			Lbs.	Lbs.
Super Comb Honey	\$1.50	\$6.25	11	50
Super Extracting	1.50	6.25	11	50
Super Empty				
Comb Honey	.65	2.75	6	25
No division boards in Supers. Add postage.				

BEE HIVE EXTRAS

Division Boards for Brood Chamber	Each	50	100
Weight, each, 1 lb. Add postage.			
Division Boards for Deep Supers	Each	50	100
Weight, each, 1 lb. Add postage.			
Section Holders, slotted	Each	50	100
Weight, 100, 35 lbs. Add postage.			
Slotted Separators	Each	50	100
Weight, 100, 8 lbs. Add postage.			
Super Followers	Each	50	100
Super Springs	Each	50	100
Spring Steel Hive Tool	Each	50	100

Bee Escapes



Porter

No apiarist can afford to be without bee-escapes. In taking off honey it is the greatest labor saving device that has been introduced in late years. It avoids shaking heavy spurs to get the bees out. Single, 25c; single, with board, 60c; double, 30c; double, with board, 70c. Add 5c for postage.

EIGHT-FRAME HIVE.

			Wt.	Wt.
			Nailed	5-K. D.
			Lbs.	Lbs.
1 Story	\$3.50	\$13.75	25	115
1 1/2 Story	4.75	19.50	31	150
Bodies Empty	.95	4.00	9	40
Hive Covers	.95	4.00	9	40
Bottom Boards	.90	3.75	8	35

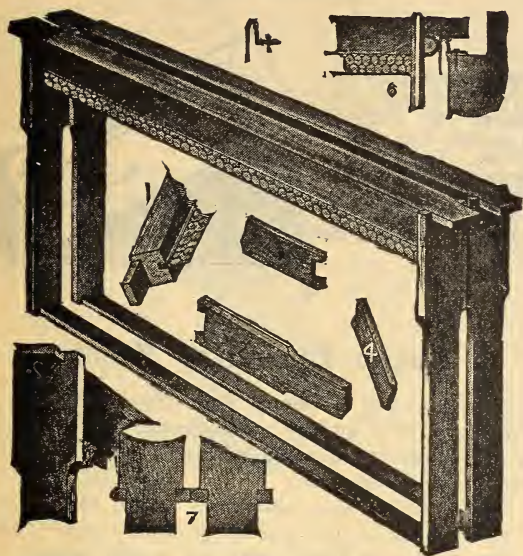
No division boards in hives. Add postage.

TEN-FRAME HIVE

			Wt.	Wt.
			Nailed	5-K. D.
			Lbs.	Lbs.
1 Story	\$3.75	\$15.00	32	150
1 1/2 Story	5.25	21.25	42	200
Bodies Empty	1.05	4.50	12	55
Hive Covers	1.05	4.50	12	55
Bottom Boards	1.00	4.25	9	40

No division boards in hives. Add postage.

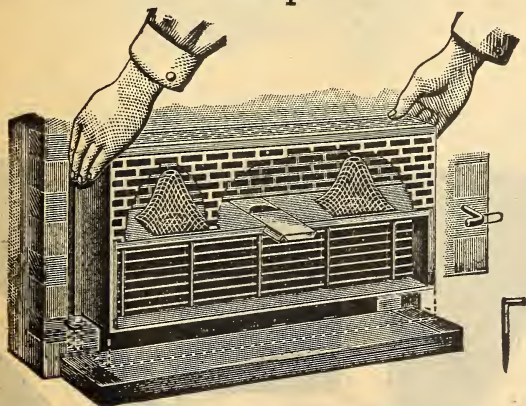
Brood Frames



The Hoffman Improved Foundation Fastening Frames are the latest and best brood frames. The top bar is made with a beveled strip which holds the foundation in place, perfectly straight and exactly in center to top bar. It seems to combine in itself nearly all the good features and for a hanging frame it is the best self-spacer we know of. It economizes labor in that it can be handled in groups of three or four; and any particular frame can be removed without thumbing over nearly all the other frames in the hive to get room. Price, each, 8c; 50, \$3.25; 100, \$6.00. Weight, per 100, 55 lbs. Add postage.

Shallow Extracting Frames: Price, each, 8c; 50, \$3.25; 100, \$6.00. Weight of 100, 28 lbs. Add postage. Metal Spacers only, 100, \$1.25.

Alley's Combined Drone and Queen Trap



A perfect non-swarming arrangement. Weight 1 lb. 75c; postpaid, 80c.

BRUSHES



Cogshall's

BRISTLE—This is a strong, durable brush, made of black bristles. Price, 50c; postpaid, 55c.

COGSALL'S—This is a sort of whisk broom especially adapted and made for brushing bees. The strands are thinned out and longer, so as to give a soft pliable sweep to the combs. 50c; postpaid, 55c.

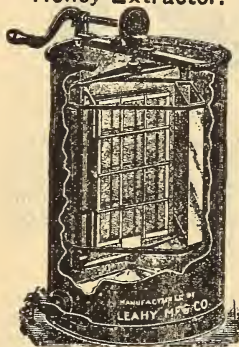
Comb Foundation

Size of Sheet	No.	Per lb.	Per 5-lb.	Per 10-lb.
Medium Brood, $7\frac{7}{8} \times 16\frac{7}{8}$	7	\$.75	\$3.65	\$7.00
Light Brood, $7\frac{7}{8} \times 16\frac{7}{8}$	9	.80	3.90	7.50
Thin Super, $3\frac{3}{4} \times 15\frac{1}{2}$	28	.85	4.15	8.00
Ext. Thin Super, $3\frac{3}{4} \times 15\frac{1}{2}$	30	.90	4.40	8.50

Add postage.

Extractors

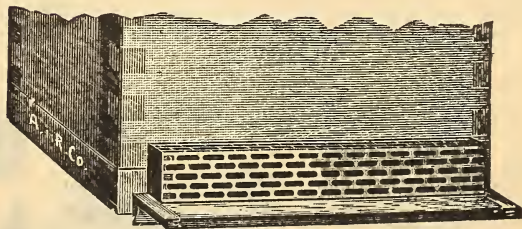
Cowan's Rapid Reversible Honey Extractor.



Two-frame Cowan's Reversible for Regulating Frames. Price, \$37.50.

If there is any one thing that is more essential to the successful manipulation of bees, aside from a good bee smoker, that one thing is a good honey extractor. If you have but ten colonies of bees it will pay you to have an extractor. Indeed, it would pay for itself in one good season, as oftentimes the brood combs become so filled with honey that the queen is crowded for room, and this honey should be extracted, and could be sold in the extracted form or used in feeding back for completing partly filled sections. Made of best steel.

Entrance Guards



These are to admit workers, and to exclude drones. After the drones are all out, fix guards over the entrance and at night the drones can be destroyed. For 8 and 10 frame hives. 30c; by mail, 35c.

Feeding

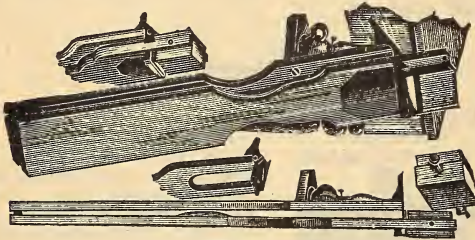
Bees are fed for two purposes: to stimulate brood-rearing or to supply them with necessary stores for winter. For stimulating a pint to a pint and a half of syrup daily either at the entrance at night or inside the hive should be given until the required amount of brood is reared. In preparing for winter it is better to give the necessary stores all at one feed. The feeder should be filled with syrup by mixing together granulated sugar and water in equal proportions by measure and stirring or heating until thoroughly dissolved.



Simplicity

The Simplicity may be placed at the entrance at night, over the brood frames, by placing on top of the hive or in the brood-nest itself, if a couple of frames are removed. 25c; by mail, 30c.

Foundation Fasteners



Daisy

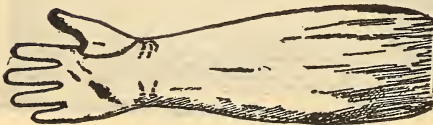
This is the best for putting starters into sections. Nothing could be more simple or more easily operated than this machine. With this a boy or girl will put starters in about 500 sections per hour. Weight, 6 lbs., without lamp, \$2.00; with lamp, \$2.50; add postage.



Parkers

The Parker Fastener is a cheap machine for fastening starters. With a little practice it can be made to work very satisfactorily. Price, 50c; postpaid, 55c.

Gloves



Gloves for protection of the hands and wrists are almost indispensable.

Canvas with sleeves, medium and large, \$1.50; postpaid, \$1.55.

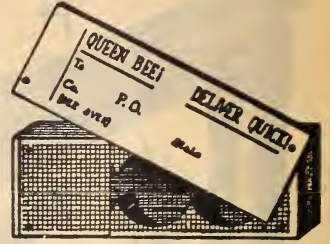
Honey Knife



Price, \$1.75; postpaid, \$1.80.

Queen Cages

The cover, to insure prompt delivery, is printed in exact fac simile of cut. On the reverse side are printed directions for introducing Queens, Benton. 15c each.



Queen Excluding Zincs

This is used between the upper and lower stories, to prevent the queen going up above. It is also used in making entrance guards, queen and drone traps, etc.

For 8-frame hive, unbound, 12x19, 50c.

For 8-frame hive, wooden bound, 13¼x20, 60c.

For 10-frame hive, unbound, 14x19, 55c.

For 10-frame hive, wooden bound, 16x20, 65c.

8-frame, 7 wire-and-wood, 13⅞x20. Price, 90c.

10-frame, 7 wire-and-wood, 16¼x20. Price, \$1.00.

Add 5c each for postage.

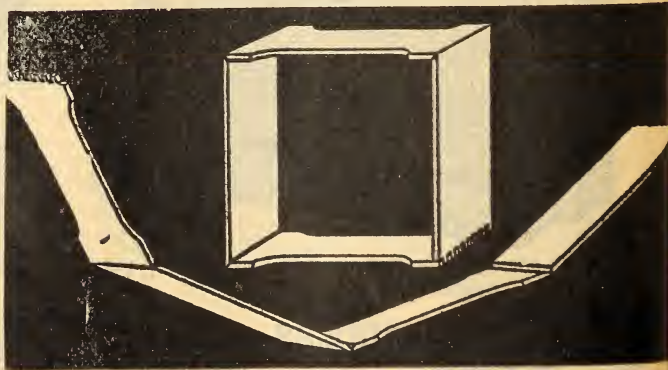
Owing to the uncertainty of the price of zinc, prices quoted for all items which include zinc in their make-up are not guaranteed and items will only be sent out at prices prevailing when order is filled.

Bee Books

The Amateur Bee Keeper, by Prof. J. W. Rouse, 80 pages, 50c; postpaid, 55c.

The A B C and X Y Z of Bee Culture, by A. I. Root, \$3.00; postpaid, \$3.10.

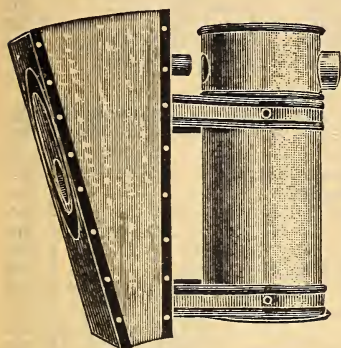
Section Honey Boxes



SECTIONS—Are made of the choicest white basswood lumber, and all are perfect in finish and free from defects. They are not all snow-white, but vary from that to light cream colors. Price, per 25, 50c; 100, \$1.75; 500, \$8.00; 1000, \$15.00; weight, 8 lbs. per 100; add postage.

Smokers

Every bee keeper needs a smoker. A little smoke puffed in at the entrance of a hive before opening it causes the bees to fill themselves with honey, and with their honey sacs well filled they become docile and their hive can be opened without much risk of the manipulator being stung.



Acme.

Acme — This is undoubtedly the best Cold Blast Smoker on the market. It has no tube in the fire box to clog. It throws a large volume of smoke at RIGHT angles to the fire box without a curved nozzle to lessen the blast. In fact, it is the perfection of smokers.
Price, \$1.00.
Weight, 2 lbs.
Add postage.

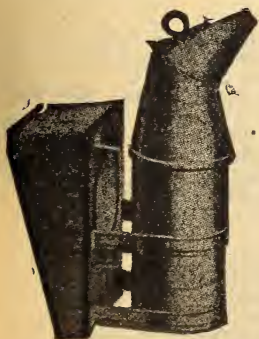


NEW BINGHAM BEE SMOKER

Patented

BINGHAM DOCTOR—This is a strong, well-made smoker; does not clog up and will burn any fuel. This smoker resembles the Higginville very much in appearance. In the Higginville the nozzle or detachable snout fits over the outside of the smoker while in the Bingham it fits on the inside. In the Higginville the nozzle is not attached to the smoker, while in the Bingham the nozzle is attached by means of an open hinge, but can be removed at will.

Price, \$1.50. Weight, 2 lbs.; add postage.



Higginville

This smoker is, as its name implies, strictly a Higginville product. It is a hot blast, and has a 3¼-inch fire box, and the nozzle is detachable to admit of filling or cleaning. It has as strong a blast as any smoker made.

Price, \$1.25. Weight, 2 lbs. Add postage.

Veils

A great necessity and very cheap. Cotton; silk face. \$1.25; postpaid, \$1.30.

Globe—Has five bars that will keep veil away from head.
Price, \$1.60; postpaid, \$1.65.



Globe

Swarm Catcher



This swarm catcher is the best article of its kind on the market, and it will be found a valuable addition to the appliances of the apiary. Without pole. Price, \$2.75. Weight, 3 lbs.; add postage.

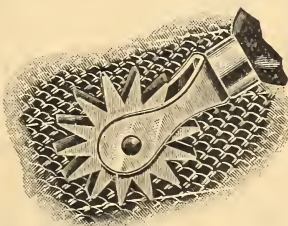
Wax Tube Fastener



Van Deusen

For fastening the foundation sheets to thin top-bars there is nothing better than the Van Deusen wax tubes. It is simply a brass tube half an inch in diameter, six inches long and tapering. This is filled with hot wax and the point is then slowly drawn along the edge of the foundation in contact with the top-bar, leaving a fine stream of hot wax to cement it. 50c; by mail, 55c.

Wire Imbedder



The latest spur wire imbedder is a most decided improvement over the old one. The teeth are wider and grooved in the direction of the circumference midway across front of teeth, so that the wheel will easily follow the wire. 50c; by mail, 55c.

Wire

No. 30 Tinned Wire seems to be the most suitable of any for wiring frames.

¼-lb. spools, each, 25c

½-lb. spools, each, 40c.

1-lb. spools, each, 65c.

Postpaid, 30c, 45c, 75c.

NUMBER OF PLANTS TO ACRE

Dist. Apart	Plants	Dist. Apart	Plants	Dist. Apart	Plants	Dist. Apart	Plants
12x 1 in.	522,270	25x18 in.	15,520	36x36 in.	4,840	60x60 in.	1,745
12x 3 in.	174,240	30x1 in.	209,088	42x12 in.	12,446	8x 1 ft.	5,445
12x12 in.	43,560	30x 6 in.	34,848	42x24 in.	6,223	2x 3 ft.	1,815
16x 1 in.	382,040	30x12 in.	17,424	42x36 in.	4,148	8x 8 ft.	680
18x 1 in.	348,480	30x16 in.	13,068	48x12 in.	10,890	10x 1 ft.	4,356
18x 3 in.	116,160	30x20 in.	10,454	48x18 in.	7,790	10x 6 ft.	726
18x12 in.	29,040	30x24 in.	8,712	48x24 in.	5,445	10x10 ft.	435
18x18 in.	19,360	30x30 in.	6,970	48x30 in.	4,356	12x 1 ft.	3,630
20x 1 in.	313,635	36x 3 in.	58,080	48x36 in.	3,630	12x 5 ft.	736
20x20 in.	15,681	36x12 in.	14,520	48x48 in.	2,723	12x12 ft.	302
24x24 in.	10,890	36x18 in.	9,680	60x36 in.	2,901	16x 1 ft.	2,722
24x 1 in.	261,360	36x24 in.	7,260	60x48 in.	2,178	16x16 ft.	170

QUANTITY OF SEED TO ACRE

Alfalfa	8 to 15 lbs.	Rye Grass, Oat Grass, Fescue Grasses	30 lbs.
Alsike	6 to 15 lbs.	Orchard Grass	20 to 30 lbs.
Artichoke, 1 oz. to 500 plants	6 oz.	Horse Radish Roots	15,000 to 20,000
Asparagus, 1 oz. to 500 plants	1 lb.	Kale, 1 oz. to 150 feet of drill	1 lb.
Barley	60 to 75 lbs.	Kale, thousand headed	1 lb.
Beans, Dwarf, 1 lb. to 100 feet of drill	50 lbs.	Kohl Rabi, 1 oz. to 150 feet of drill	2 lbs.
Beans, Tall, 1 lb. to 150 hills	25 lbs.	Kaffir Corn	6 to 8 lbs.
Beet, garden, 1 oz. to 50 feet of drill	5 lbs.	Leek, 1 oz. to 100 feet of drill	4 lbs.
Beet, sugar, 1 oz. to 50 feet of drill	5 lbs.	Lettuce, 1 oz. to 150 feet of drill	3 lbs.
Beet, Mangel Wurzel, 1 oz. 50 ft. drill	5 lbs.	Melon, Musk, 1 oz. to 60 hills	2 to 3 lbs.
Broccoli, 1 oz. to 2,000 plants	4 oz.	Melon, Water, 1 oz. to 30 hills	3 to 4 lbs.
Brussels Sprouts, 1 oz. to 2,000 plants	4 oz.	Millet	30 lbs.
Broom Corn	12 lbs.	Nasturtium, 1 oz. to 50 feet of drill	15 lbs.
Buckwheat	45 lbs.	Oats	75 lbs.
Cabbage, 1 oz. to 1,500 plants	1/2 lb.	Okra, 1 oz. to 100 feet of drill	8 lbs.
Carrot, 1 oz. to 125 feet of drill	3 lbs.	Onions, 1 oz. to 100 feet of drill	4 to 8 lbs.
Cauliflower, 1 oz. to 2,000 plants	3 oz.	Onions, for sets	30 to 40 lbs.
Celery, 1 oz. to 5,000 plants	1 lb.	Onion Sets, 1 lb. to 75 feet of drill	400 lbs.
Chicory, 1 oz. to 100 feet of drill	4 lbs.	Parsley, 1 oz. to 300 feet of drill	3 lbs.
Clover, White	6 to 10 lbs.	Parsnips, 1 oz. to 200 feet of drill	6 lbs.
Clover, White, for lawns	25 to 100 lbs.	Peas, Garden, 1 lb. to 50 feet of drill	60 lbs.
Clover, Red and Crimson	12 to 20 lbs.	Peas, Field	100 lbs.
Clover, sweet, hulled	15 lbs.	Pepper, 1 oz. to 100 plants	100 lbs.
Clover, sweet, unhulled	25 lbs.	Potatoes	400 to 600 lbs.
Collards, 1 oz. to 2,000 plants	4 oz.	Pumpkin, 1 oz. to 30 hills	3 to 4 lbs.
Corn, Sweet, 1 lb. to 200 hills	8 to 12 lbs.	Radish, 1 oz. to 100 feet of drill	10 lbs.
Corn, field	8 to 12 lbs.	Rape, Dwarf Essex	5 to 10 lbs.
Corn, fodder	8 to 20 lbs.	Rutabagas, 1 oz. to 150 feet of drill	2 lbs.
Corn, Pop	8 to 12 lbs.	Rye	60 to 80 lbs.
Cress, 1 lb. to 100 feet of drill	1 lb.	Salsify, 1 oz. to 50 feet of drill	8 lbs.
Cucumber, 1 oz. to 60 hills	2 to 3 lbs.	Speltz	75 lbs.
Egg Plant, 1 oz. to 2,000 plants	4 oz.	Spinach, 1 oz. to 100 feet of drill	8 lbs.
Endive, 1 oz. to 100 feet of drill	4 oz.	Squash, Summer, 1 oz. to 25 hills	3 lbs.
Flax, for seed, 30 lbs. to acre; for fibre	50 lbs.	Squash, Winter, 1 oz. to 12 hills	4 lbs.
Grass, Brome	25 lbs.	Sugar Cane	10 lbs.
Grass, lawn, 1 lb. to 300 sq. ft.	80 lbs.	Sunflower	8 lbs.
Grass, Kentucky Blue, Canadian Blue	20 lbs.	Tomato, 1 oz. to 2,000 plants	4 oz.
Grass, Soudan	10 lbs.	Turnip, 1 oz. to 150 feet of drill	2 lbs.
Timothy	6 to 12 lbs.	Vetches, Spring	60 to 90 lbs.
Red Top	10 to 15 lbs.	Vetches, Winter	30 to 60 lbs.
		Wheat	60 to 80 lbs.

WEIGHT OF SEED PER BUSHEL

Clovers.		Barley, Hulled	60	Red Top, Hulled	36	Liberty	50
Alfalfa	60	Corn, Ear	70	Rye, English	25	Siberian	50
Alsike	60	Corn, Shelled	56	Rye, Italian	22	White Wonder	50
Crimson	60	Oats	32	Sudan	22		
Red	60	Rye	56	Tall Meadow Oat	14	Miscellaneous:	
Sweet, Hulled	60	Wheat	60	Timothy	45	Buckwheat	50-48
Sweet, Unhulled	40					Flax	56
White	60	Grasses:		Milletts:		Peas, Smooth	60
Grains:		Blue	14	Hog	50	Peas, Wrinkled	56
Barley	48	Brome	14	Hungarian	48	Onion Sets, Bot-	
		Orchard	14	Japanese	40	toms	32

USUAL DISTANCE FOR PLANTING

Bushes:		Roots:		Onions, drills, 2 to 3 ft.
Blackberries, 8x4 ft.		Asparagus, 2x3 ft.		Parsnips, drills, 2 to 3 ft.
" Mammoth, 8x12 ft.		Potatoes, 18 in. by 3 ft.		Peas, drills, 2 to 3 ft.
Currants, 5x3 ft.		Rhubarb, 3x4 ft.		Peas, broadcast, acre, 150 lbs.
Dewberries, 8x4 ft.		Sweet Potatoes, 2x4 ft.		Pumpkins, 8x3 ft.
Gooseberries, 5x3 ft.				Radishes, drills, 1 to 2 ft.
Raspberries, 7x3 ft.		Seeds.		Salsify, drills, 1 to 2 ft.
		Beans, Bush, drills, 3 ft.		Spinach, drills, 1 to 2 ft.
Plants:		Beans, Pole, 3x3 ft.		Squash, Bush, 3x4 ft.
Cabbage, Early, 16x30 inches.		Beets, Table, drills, 2x2 1/2 ft.		Squash, Running, 8x8 ft.
Cabbage, late, 24x30 in.		Beets, Stock, drills, 2x3 ft.		
Cauliflower, 2x3 ft.		Carrots, drills, 2x2 1/2 ft.		Trees:
Celery, 6 in. by 4 ft.		Corn, Sweet, 2x3 ft.		Apple, 30x30 ft.
Egg Plant, 3x5 ft.		Corn, Field, 3x3 ft.		Cherry, 20x20 ft.
Peppers, 18 in. by 2 1/2 ft.		Cucumbers, 4x4 ft.		Peach, 20x20 ft.
Tomatoes, 4x4 ft.		Lettuce, drills, 1x2 ft.		Pear, 20x20 ft.
Strawberries, hills, 1 1/2x3 ft.		Melon, Musk, 5x5 ft.		Plum, 20x20 ft.
" matted rows, 1x3 ft.		Melon, Water, 7x7 ft.		Quince, 20x20 ft.

THE INLAND SEED CO.

**SPOKANE,
WASH.**

No Goods Sent C. O. D. For Full Instructions About Ordering, see Inside Front Cover.

THE INLAND SEED CO. gives no warranty, express or implied, as to description, purity, productiveness or any other matter of any seeds, bulbs, plants or roots they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

Forward by _____ P. O. Money Order \$ _____
(State on this line whether wanted by Mail, Express or Freight.)

Your Name _____ Exp. Money Order \$ _____

Postoffice _____ Notes and Silver \$_____

State _____ Postage Stamps - \$ _____

Total - - \$_____

Express or
Freight Office _____ Date _____ 19____

Lot No	Pounds	Ounces	Packets	NAMES OF SEEDS WANTED	PRICE Dollars Cents
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SEE PAGE 4 FOR OUR SPECIAL OFFERS

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under your ZONE will be shown the amount of postage to be added when ordering. We have catalogued the weight of most items mailable by parcel post, and by aid of the table here shown you can always figure your postage.

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A Parcel Post package may weigh from 4 ozs. to 70 lbs. for the first, second and third zones—with a 20-pound weight limit for from fourth to eighth zones inclusive, and must not exceed in size 84 inches in length and girth combined.

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that corresponds to the distance you are away.

Then note where the weight of your package is marked on the table of rates, on the same line as postage to be added when ordering. We have

Weight	1st Zone		2nd Zone	3rd Zone	4th Zone	5th Zone	6th Zone	7th Zone	8th Zone
	Local rate	Zone rate 50 miles	50 to 150 miles	150 to 300 miles	300 to 600 miles	600 to 1000 miles	1000 to 1400 miles	1400 to 1800 miles	All over 1800 miles
1 pound					\$0.07	\$0.08	\$0.09	\$0.11	\$0.12
2 pounds					.11	.14	.17	.21	.24
3 pounds	Local Zone Rate 5c for first pound each additional pound up to limit of 70 pounds	First and Second Zones 5 cents for the first pound and 1 cent for each additional pound up to the limit of 70 pounds	Third Zone 6 cents for the first lb. and 2 cents for each additional lb. up to 70 lbs.		.15	.20	.25	.31	.36
4 pounds					.19	.26	.33	.41	.48
5 pounds					.23	.32	.41	.51	.60
6 pounds					.27	.38	.49	.61	.72
7 pounds					.31	.44	.57	.71	.84
8 pounds					.35	.50	.65	.81	.96
9 pounds					.39	.56	.73	.91	1.08
10 pounds					.43	.62	.81	1.01	1.20
11 pounds					.47	.68	.89	1.11	1.32
12 pounds					.51	.74	.97	1.21	1.44
13 pounds					.55	.80	1.05	1.31	1.56
14 pounds					.59	.86	1.13	1.41	1.68
15 pounds					.63	.92	1.21	1.51	1.80
16 pounds					.67	.98	1.29	1.61	1.92
17 pounds					.71	1.04	1.37	1.71	2.04
18 pounds					.75	1.10	1.45	1.81	2.16
19 pounds					.79	1.16	1.53	1.91	2.28
20 pounds					.83	1.22	1.61	2.01	2.40

The Inland SEED COMPANY

SPOKANE, WASH.



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